

TC-K777ESII

SERVICE MANUAL

AEP Model



'Dolby' and the double-D symbol are the trade marks of Dolby laboratories Licensing Corporation. Noise reduction system manufactured under license from Dolby Laboratories Licensing Corporation.

SPECIFICATIONS

Tape Transport Mechanism Type	TCM-120D4
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Recording system 4-track 2-channel stereo
Bias frequency 105 kHz
Signal-to-noise ratio (NAB, at peak level)

Dolby NR switch	OFF	B-TYPE ON	C-TYPE ON
Cassette			
TYPE IV (Sony METAL-ES)	61 dB	68 dB	74 dB
TYPE II (Sony UCX-S)	59 dB	66 dB	72 dB
TYPE I (Sony HF-S)	57 dB	64 dB	70 dB

Total harmonic distortion

0.7% (with Sony METAL-ES cassettes)

Frequency response

DOLBY NR OFF

- With TYPE IV cassette (Sony METAL-ES)
10–20,000 Hz
15–19,000 Hz (± 3 dB)
15–14,000 Hz (± 3 dB, 0 VU recording)
15–19,000 Hz (DIN)
- With TYPE II cassette (Sony UCX-S)
10–20,000 Hz
15–18,000 Hz (± 3 dB)
15–18,000 Hz (DIN)
- With TYPE I cassette (Sony HF-S)
10–19,000 Hz
15–17,000 Hz (DIN)

Wow and flutter

0.02% WRMS (NAB)
 $\pm 0.055\%$ (DIN)

Inputs


Line inputs (phono jacks)
Sensitivity 77.5 mV
Input impedance 47 k ohms

Outputs

Fixed line outputs (phono jacks)
Output level 0.44 V at a load impedance of 47 k ohms
Load impedance over 10 k ohms
Variable line outputs (phono jacks)
Maximum output level 0.44 V at a load impedance of 47 k ohms with LINE OUT level control at "MAX"
Variable from 0.44 V to 0V
Load impedance over 10 k ohms
Headphone output
Output level variable from 1.6 mW to 0 mW at a load impedance of 32 ohms

— Continued on page 2 —

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK  ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.



STEREO CASSETTE DECK
SONY®

TC

TC-K777ESII

General

Power requirements

220 V ac, 50/60 Hz

Power consumption

38 watts

Dimensions

Approx. 430 × 110 × 390 mm (w/h/d)
(16⁷/₈ × 4³/₈ × 15³/₈ inches)
including projecting parts and controls

Weight

Approx. 10.8 kg (23 lbs 13 oz)

LED peak program meters

Response range -40 dB to +10 dB

Frequency response

20–20,000 Hz ± 1.5 dB

Response time 1 millisecond

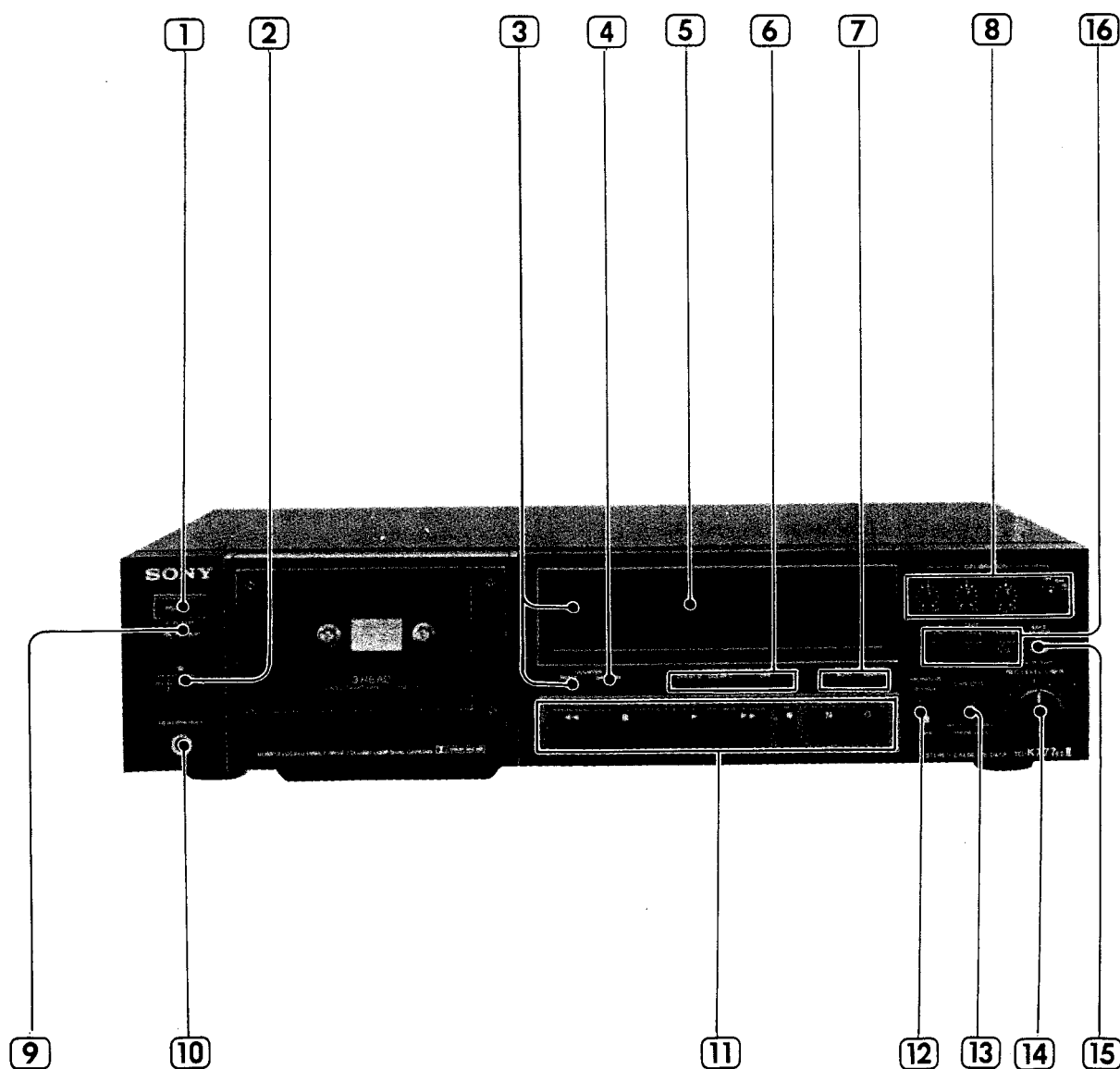
Decay time (from 0 dB to -20 dB)

750 milliseconds

Overshoot none

Indicator elements 30 elements for each channel

FUNCTION OF CONTROLS



① POWER switch

Depress this switch to turn on the power. The lamp in the cassette holder, the display of the peak program meters and the tape counter will light up. The **II** indicator lamp of the PAUSE button will blink for about 3 seconds, indicating that the function buttons are inoperative during this period. Press this switch again to turn the power off.

② (eject) button

Press this button to open the cassette holder.

③ Tape counter and COUNTER RESET button

The tape counter shows the tape running time. Press the COUNTER RESET button to reset the tape counter to "00."

④ MEMORY button

Press to rewind the tape to the "00" point on the tape counter. The word "MEMORY" is displayed below the tape counter. Pressing the **▶** button together with the **◀◀** button automatically starts playback from "00." When you do not use the memory function, press this switch again. The word "MEMORY" will disappear.

⑤ Multi-purpose display monitor

When the CALIBRATION MODE switch is at the OFF position, the peak program meter scale is displayed. The meter shows the recording level of each channel with the MONITOR switch set at SOURCE and the recorded levels with the MONITOR switch set at TAPE. When the CALIBRATION MODE switch is set to BIAS, the display changes to the scale used for bias calibration and when the switch is set to REC LEVEL, the display changes to the scale for record level calibration.

⑥ NOISE REDUCTION switches and indicators

To record or play back using the Dolby* B-type NR system, press the DOLBY B switch. To record or play back using the Dolby C-type NR system, press the DOLBY C switch. The corresponding indicator lights up. To record or play back without the Dolby NR process, press the OFF switch. For details about the Dolby NR system, see page 16.

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⑦ PEAK HOLD RESET buttons

You can choose either of two ways to have the peak level indicated:

- When the **AUTO** button is pressed down, successive peaks are held for about 2.5 seconds, except when a higher peak occurs before 2.5 seconds have passed, in which case that peak is immediately indicated.
- When the non-locking **MANUAL** button is pressed, the peak level will be held on the scale until a higher peak occurs, when that peak will be held. To reset the peak held on the meter, just press this button. You will find this method of indicating the peak input useful when you want to know the highest peak of a tape or disc, or when you want to know both the highest peak as well as the intermittent input levels during live recording.

⑧ CALIBRATION section

These dials are used for the bias and recording level calibration.

⑨ TIMER switch

You can set the unit to record or play back at a predetermined time by connecting any commercially available timer. To record, set this switch to REC. To playback, set it to PLAY.

⑩ HEADPHONES jack

Headphones may be inserted either to monitor the input signals to be recorded or to listen to a recording in the playback mode. Headphone volume is adjustable with the LINE OUT/PHONE LEVEL control.

⑪ Function buttons

It is possible to switch directly from one mode to another.

- ◀◀ (rewind) button:** Press this button to rewind the tape. This button is also used, with the **▶** button, to initiate auto play.
- ▶ (forward) button:** Press this button to play the tape back. To record, press this button while holding the **●** button down.
- ▶▶ (fast-forward) button:** Press this button to advance the tape rapidly.
- (record) button:** Press this button together with the **▶** button to start recording. Also press this button before adjusting the recording level.
- (stop) button:** To stop the tape, press this button. The tape will stop automatically when it is completely wound in either direction.
- II PAUSE button:** To pause for a moment during recording or playback, press this button. This button is also used to control more precisely the start of recording and to release the record muting mode.

○ REC MUTE (record muting) button: Press this button to eliminate unwanted material and to insert a blank space during recording.

⑫ MONITOR switch

When adjusting the recording level, set this switch to SOURCE to allow monitoring of the sound to be recorded. During playback, set this switch to TAPE to allow monitoring of the recorded sound. During recording, use this switch to monitor either the source or the recorded sound.

⑬ LINE OUT/PHONE LEVEL control

This control governs the output level of the VARIABLE LINE OUT jacks as well as the headphone level. The output level is reduced as it is turned to the left. These settings do not affect the peak program meters or the output level of the FIXED LINE OUT jacks.

⑭ REC LEVEL (recording level) controls

These controls adjust the recording level. The outer knob is for the left channel and the inner knob for the right channel. To adjust the level of the left or right channel only, turn the appropriate knob while holding the other knob.

⑮ MPX FILTER switch

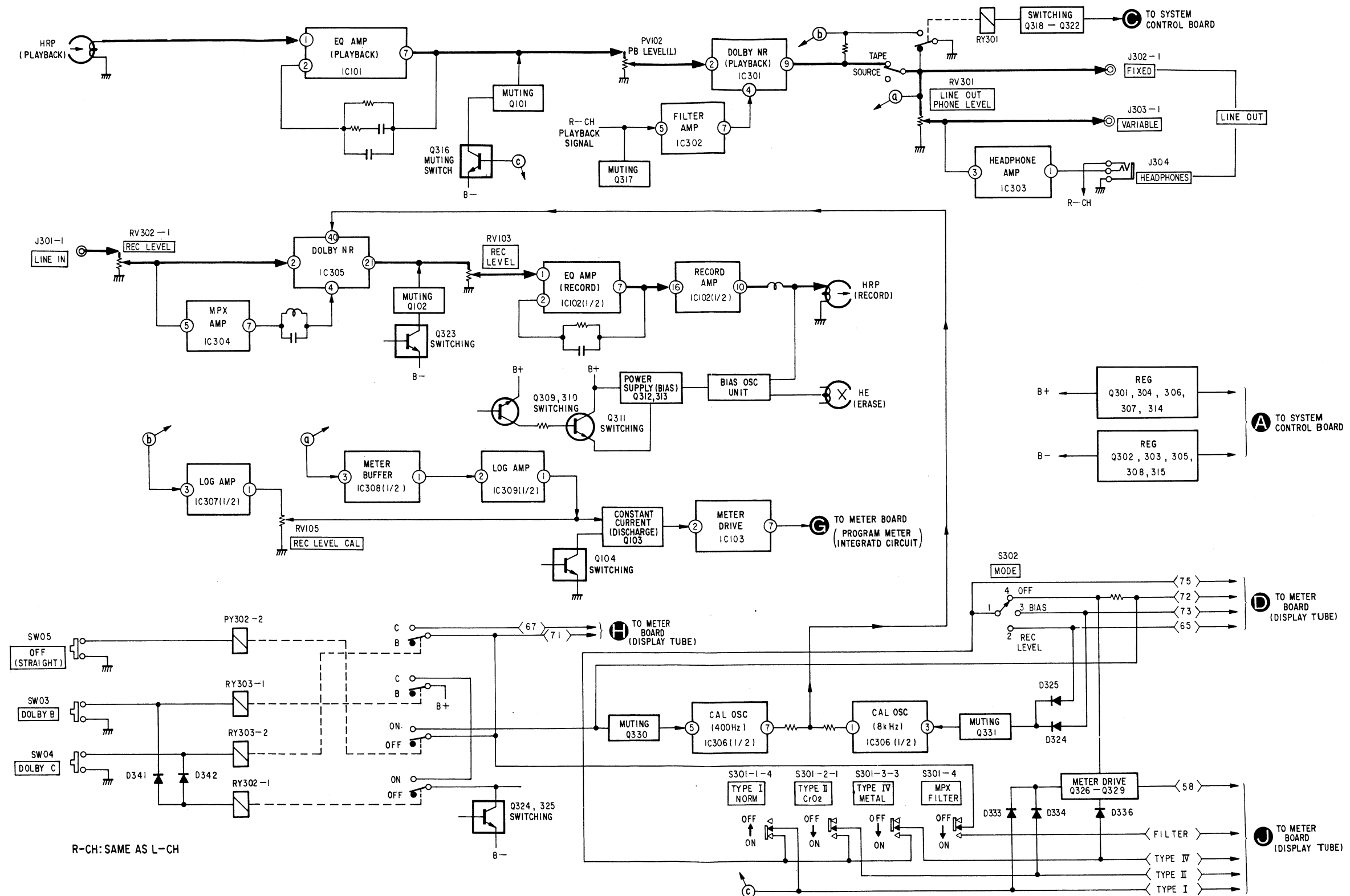
Normally set this switch to OFF. When recording FM stereo broadcasts with the Dolby NR system, set it to ON if the 19 kHz pilot signal and the 38 kHz subcarrier have not been adequately suppressed by the FM tuner or receiver. The word "FILTER" will be displayed on the monitor. If the tuner or the receiver suppresses such signals adequately (most high-quality tuners and receivers will), you do not have to set this switch to ON.

⑯ TAPE select buttons

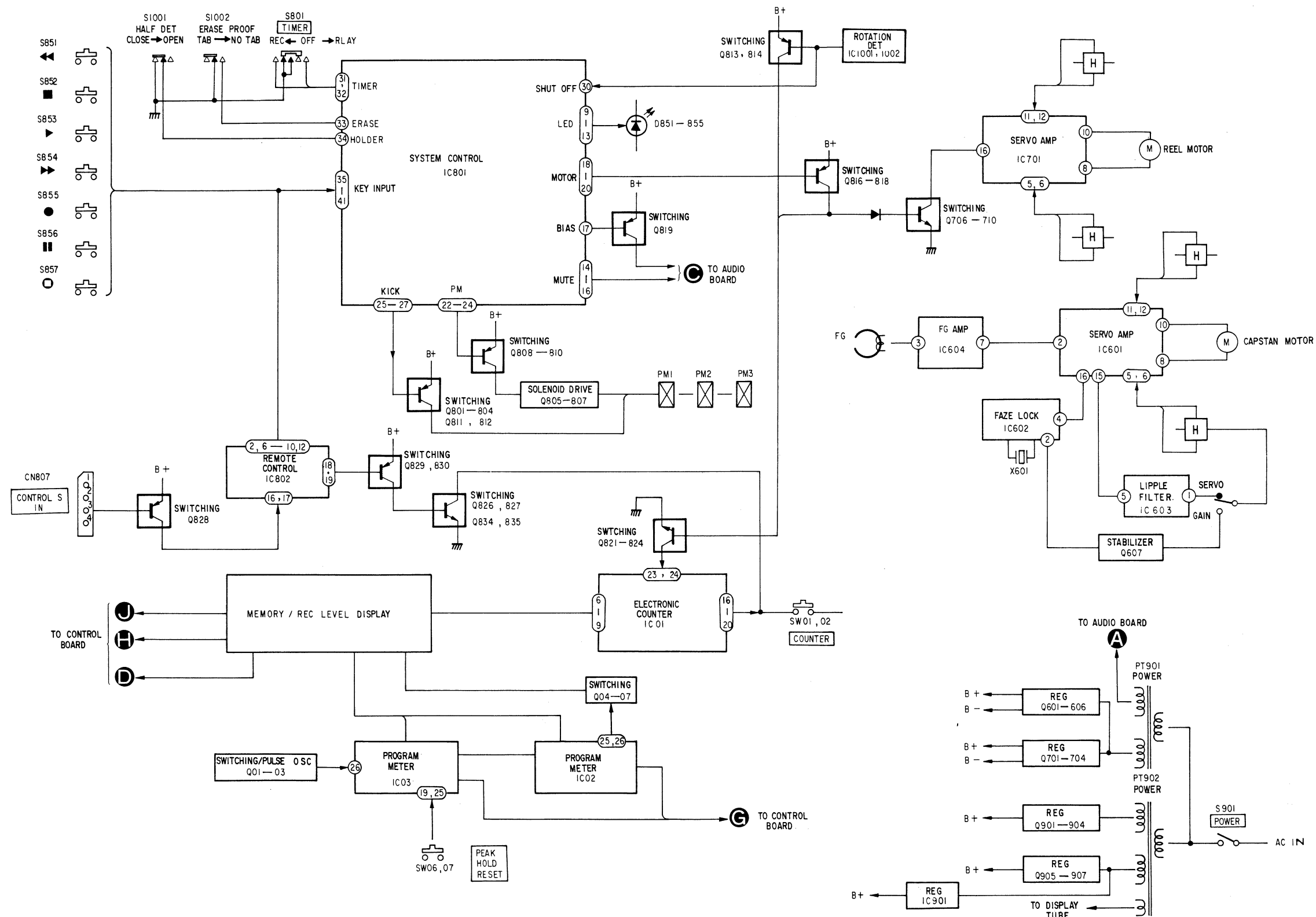
Depress the TAPE button corresponding to the type of tape being used. The type of tape will be displayed on the display monitor.

SECTION 1
BLOCK DIAGRAM

1-1. AUDIO/CONTROL BLOCK



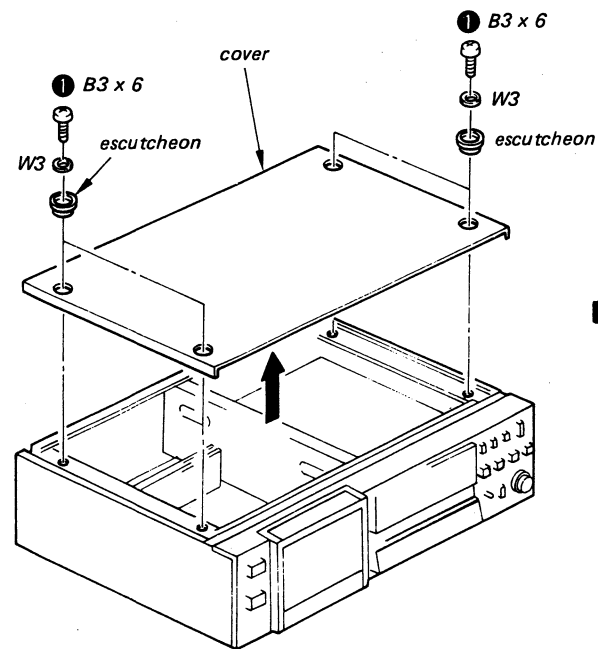
1-2. SYSTEM CONTROL/SERVO BLOCK



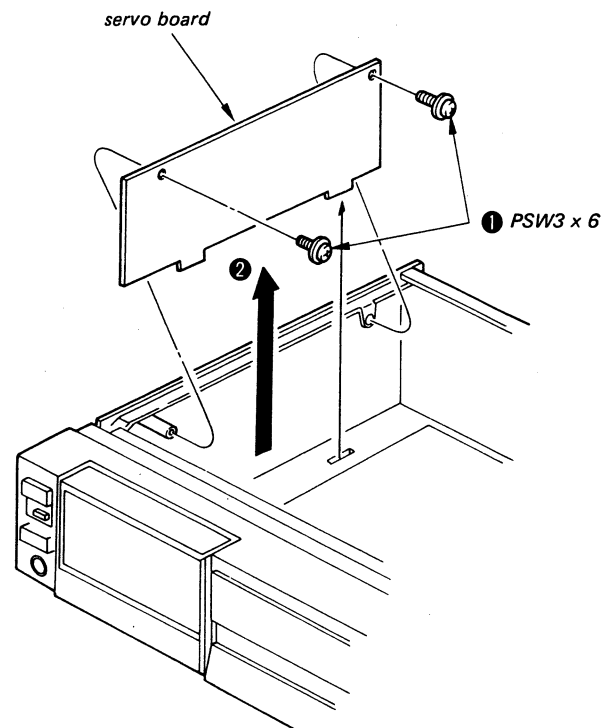
DISASSEMBLY

Note: Follow the disassembly procedure in the numerical order given.

COVER

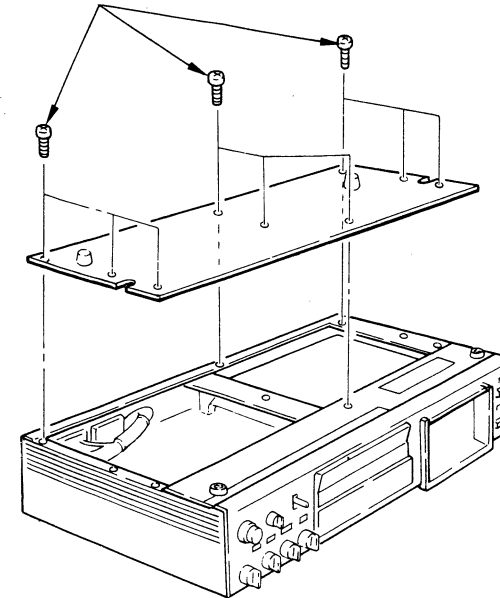


SERVO BOARD



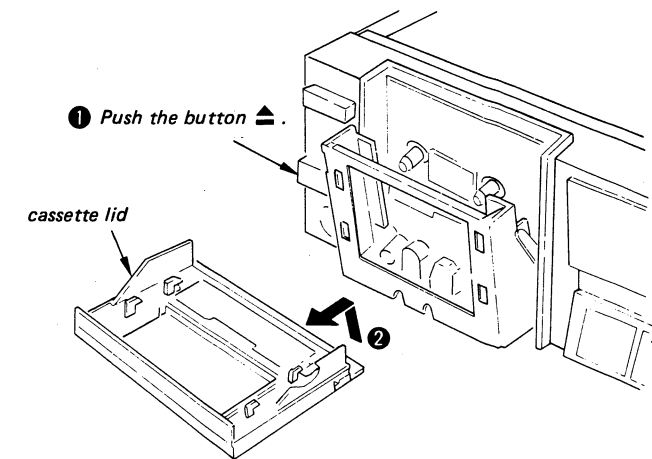
BOTTOM PLATE

9 screws BV3 x 6



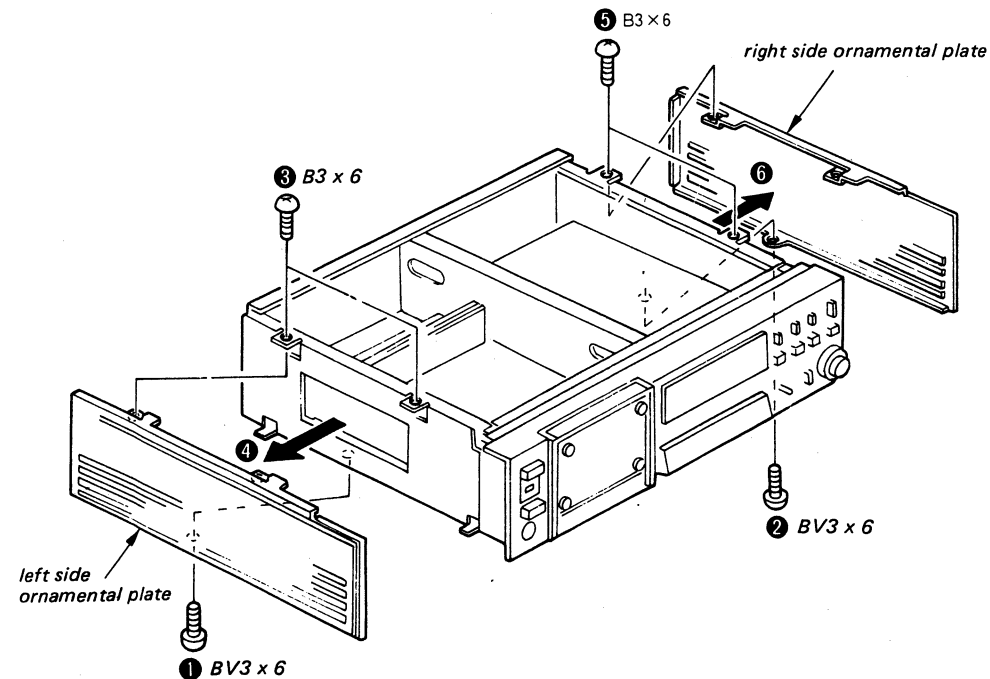
The checking of audio and system control boards is possible.

CASSETTE LID

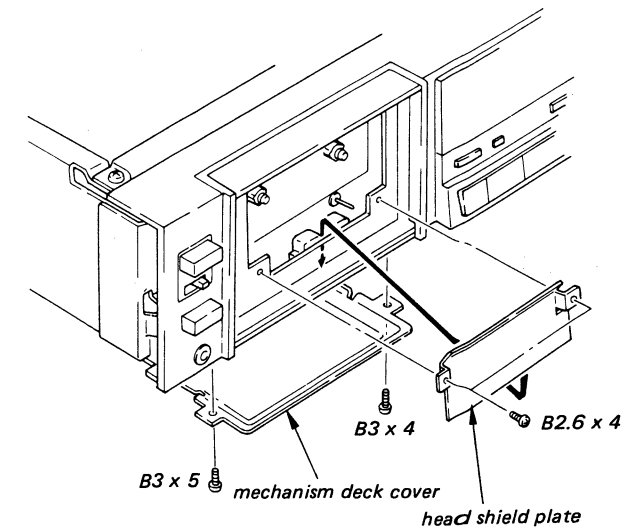
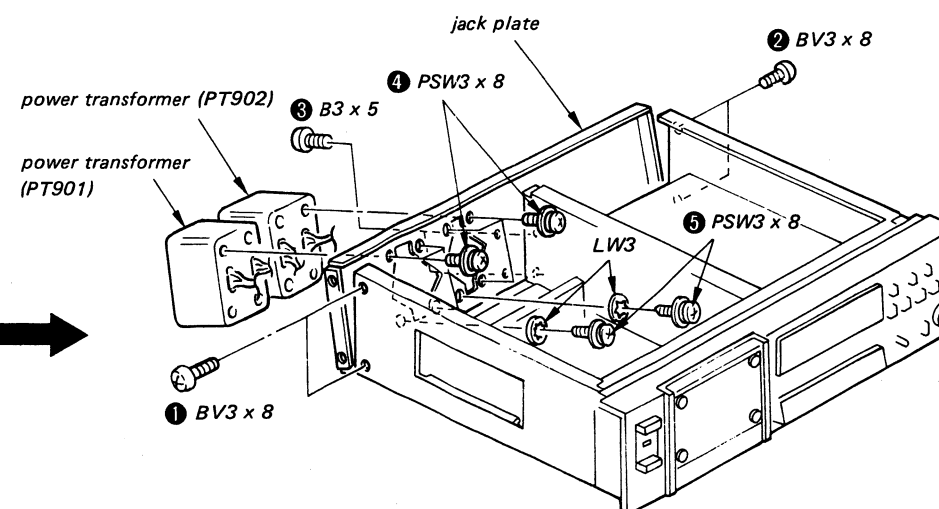


MECHANISM DECK COVER, HEAD SHIELD PLATE

RIGHT AND LEFT SIDE ORNAMENTAL PALTE



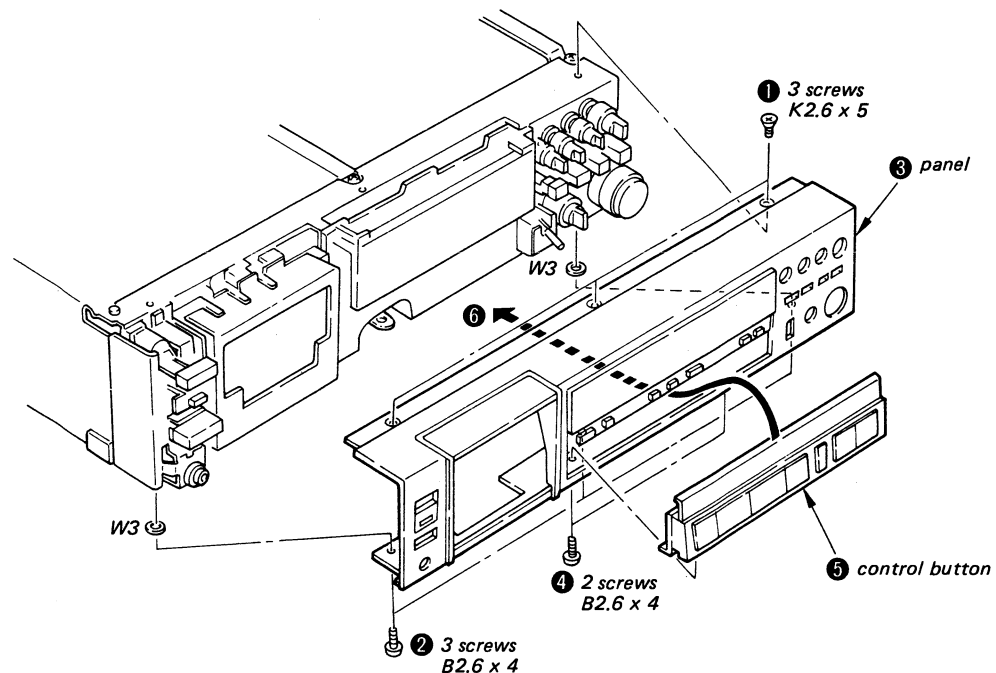
POWER TRANSFORMER



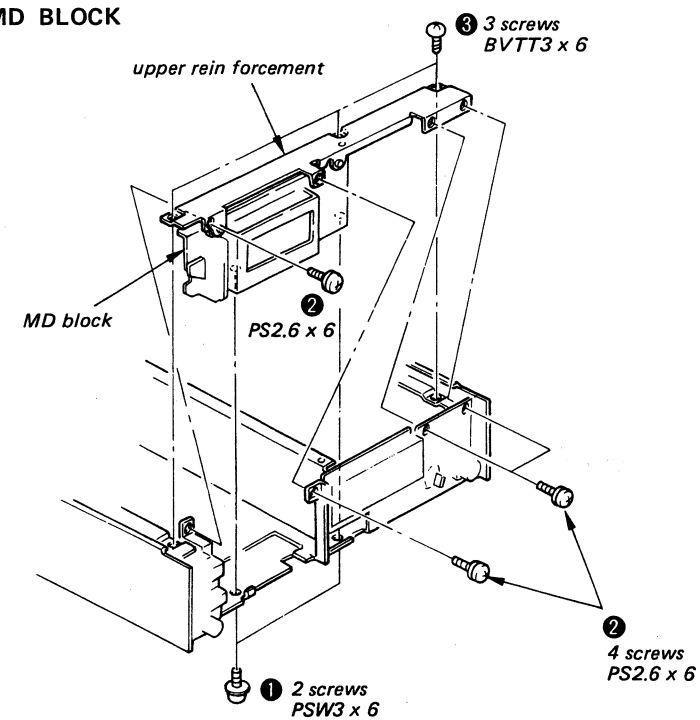
The checking of the heads and their surroundings is possible.

Remove the cover.

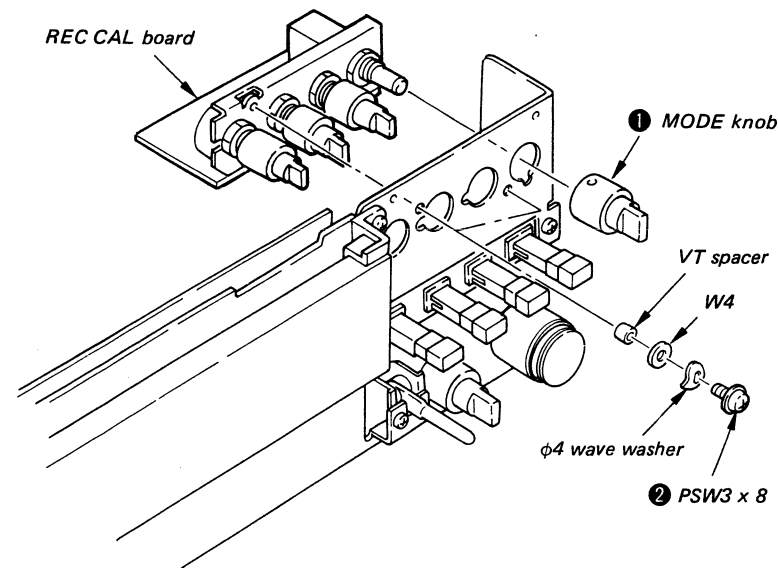
PANEL



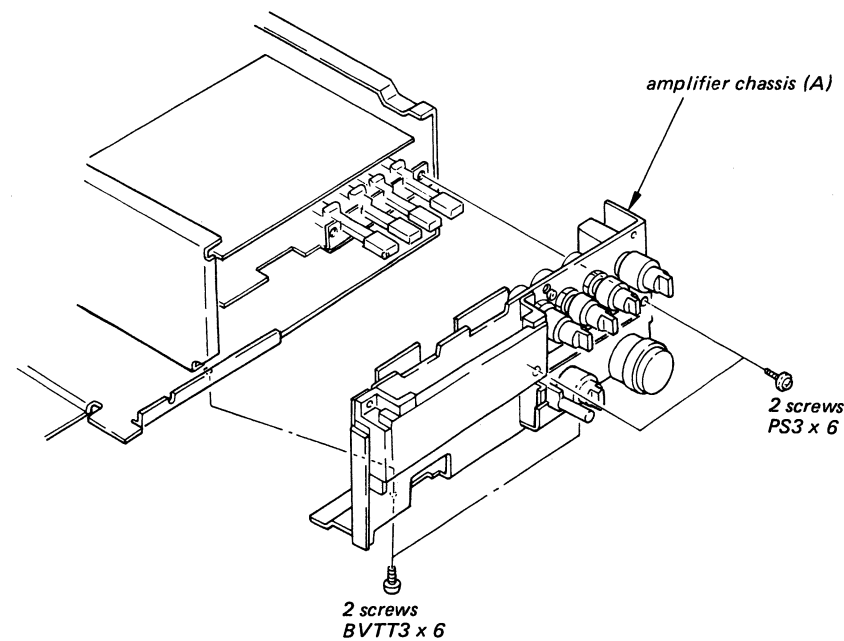
MD BLOCK



REC CAL BOARD

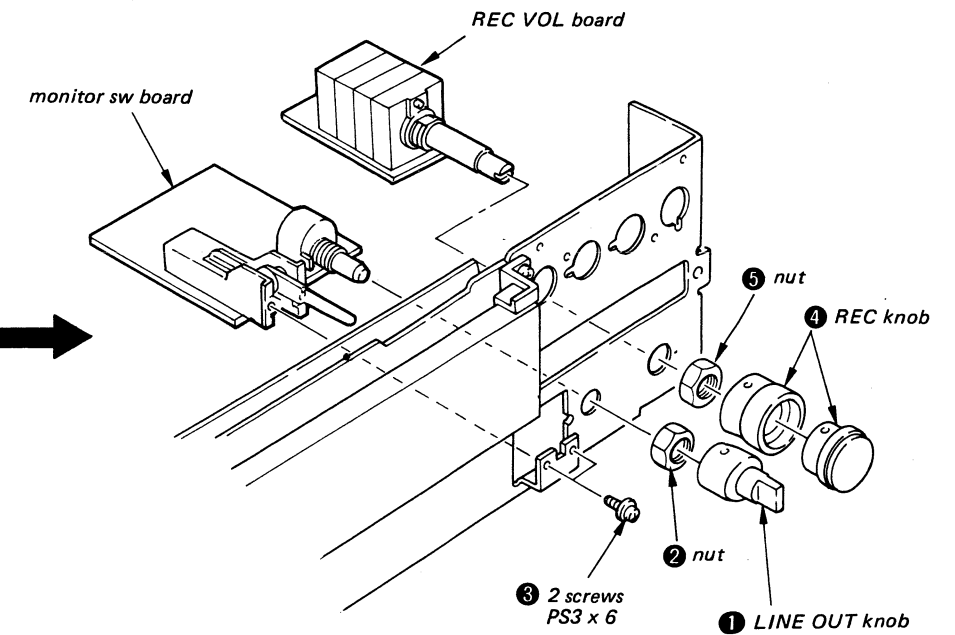


AMPLIFIER CHASSIS (A)



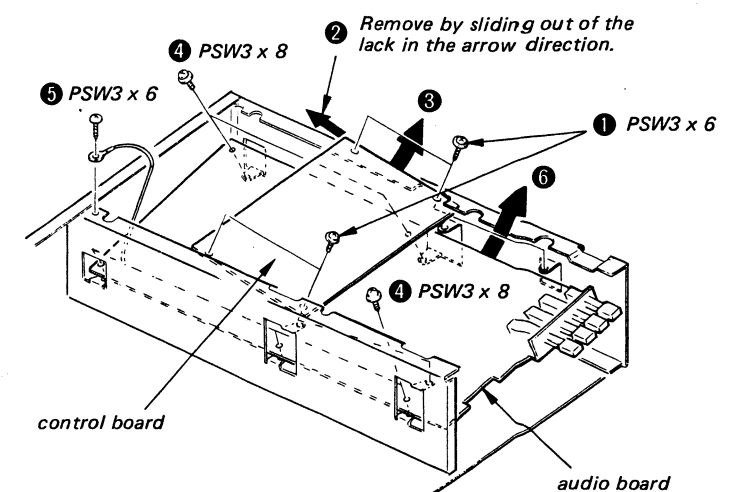
MONITOR SW BOARD, REC VOL BOARD

- ①-③ : monitor sw board
④, ⑤ : REC VOL board

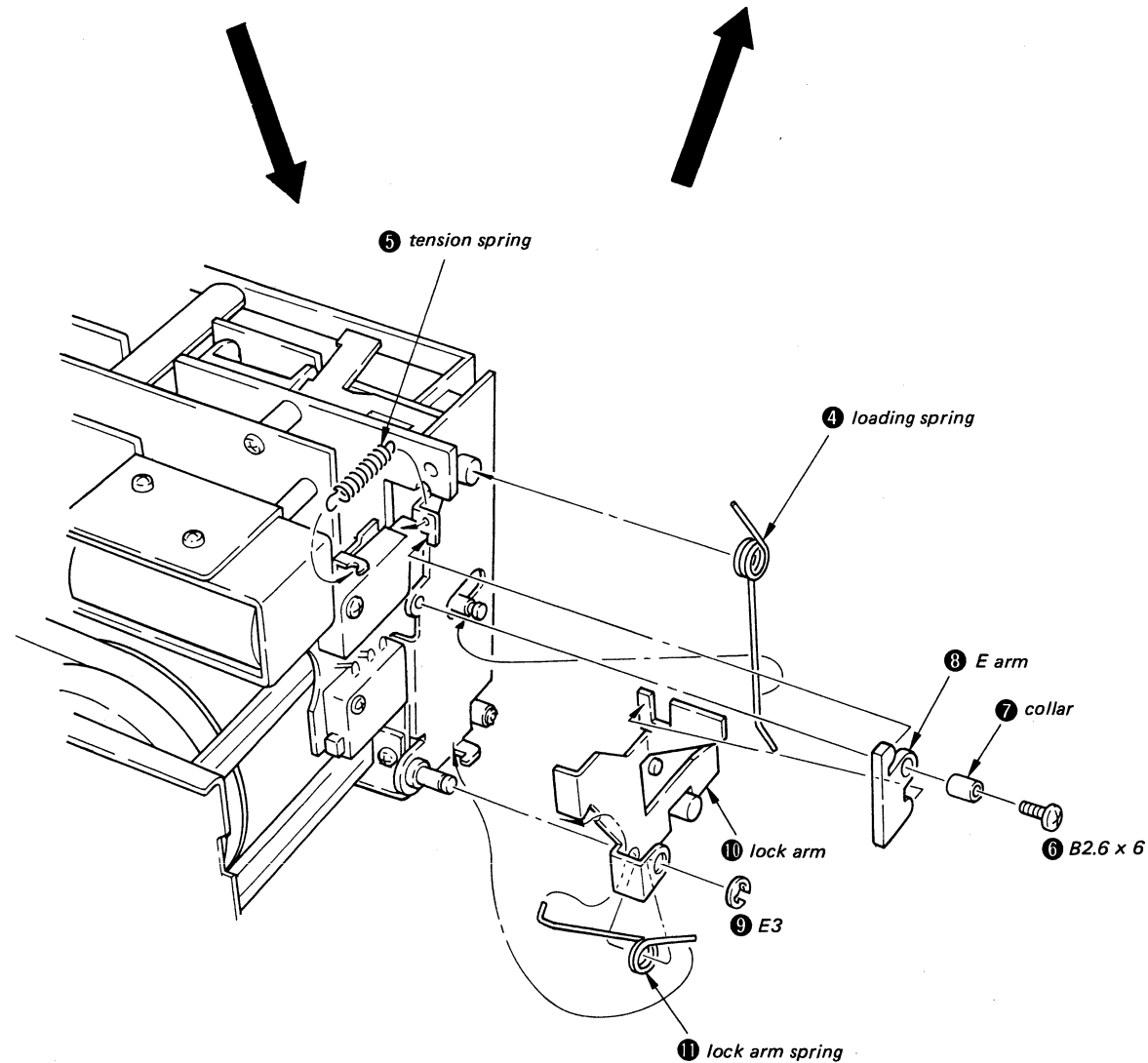
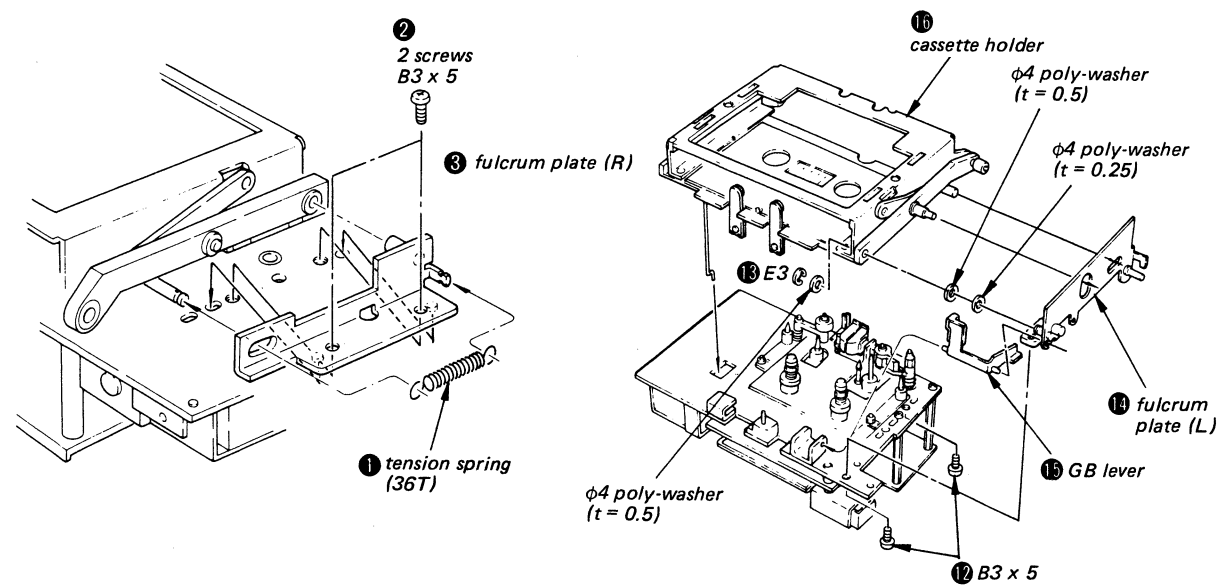


CONTROL BOARD, AUDIO BOARD

- ①-③ : control board
④-⑥ : audio board

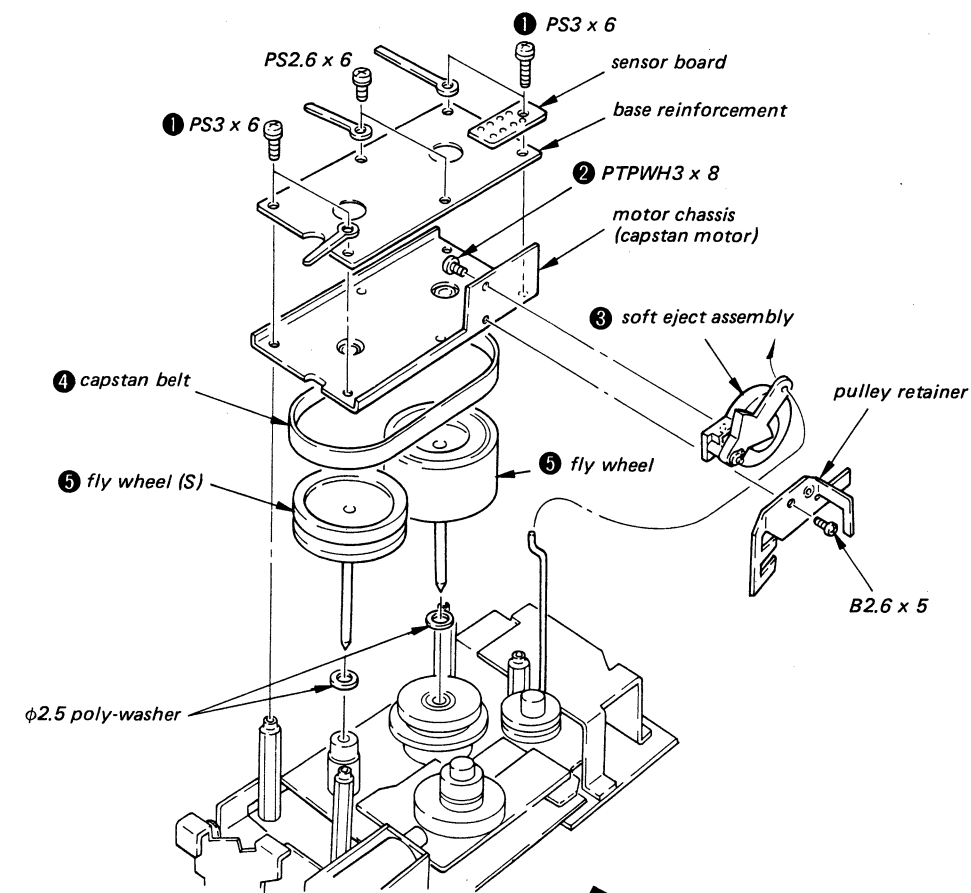


CASSETTE HOLDER

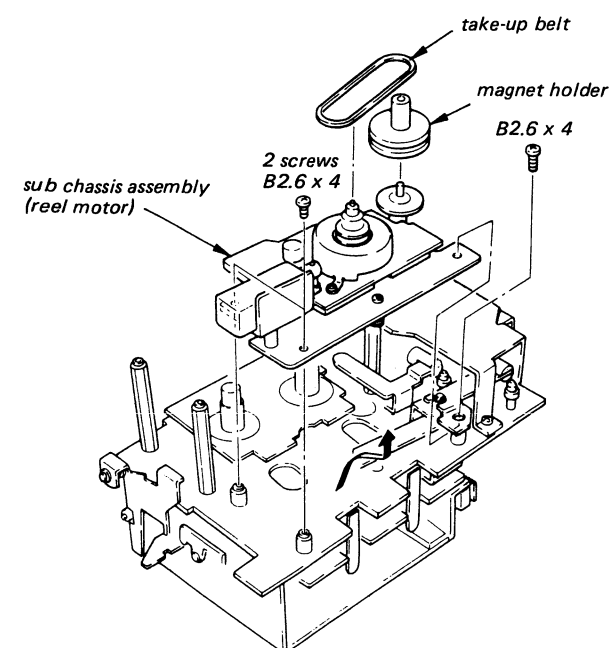


MECHANISM BLOCK REMOVAL

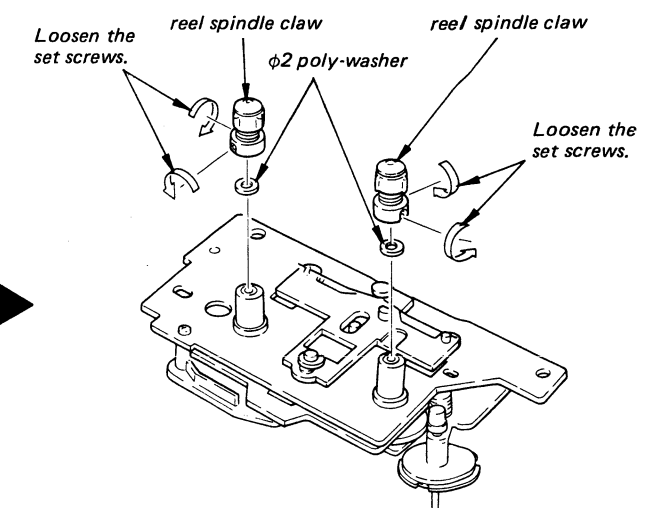
MOTOR CHASSIS ASSEMBLY (CAPSTAN MOTOR), CAPSTAN BELT



SUB CHASSIS (REEL MOTOR), TAKE-UP BELT

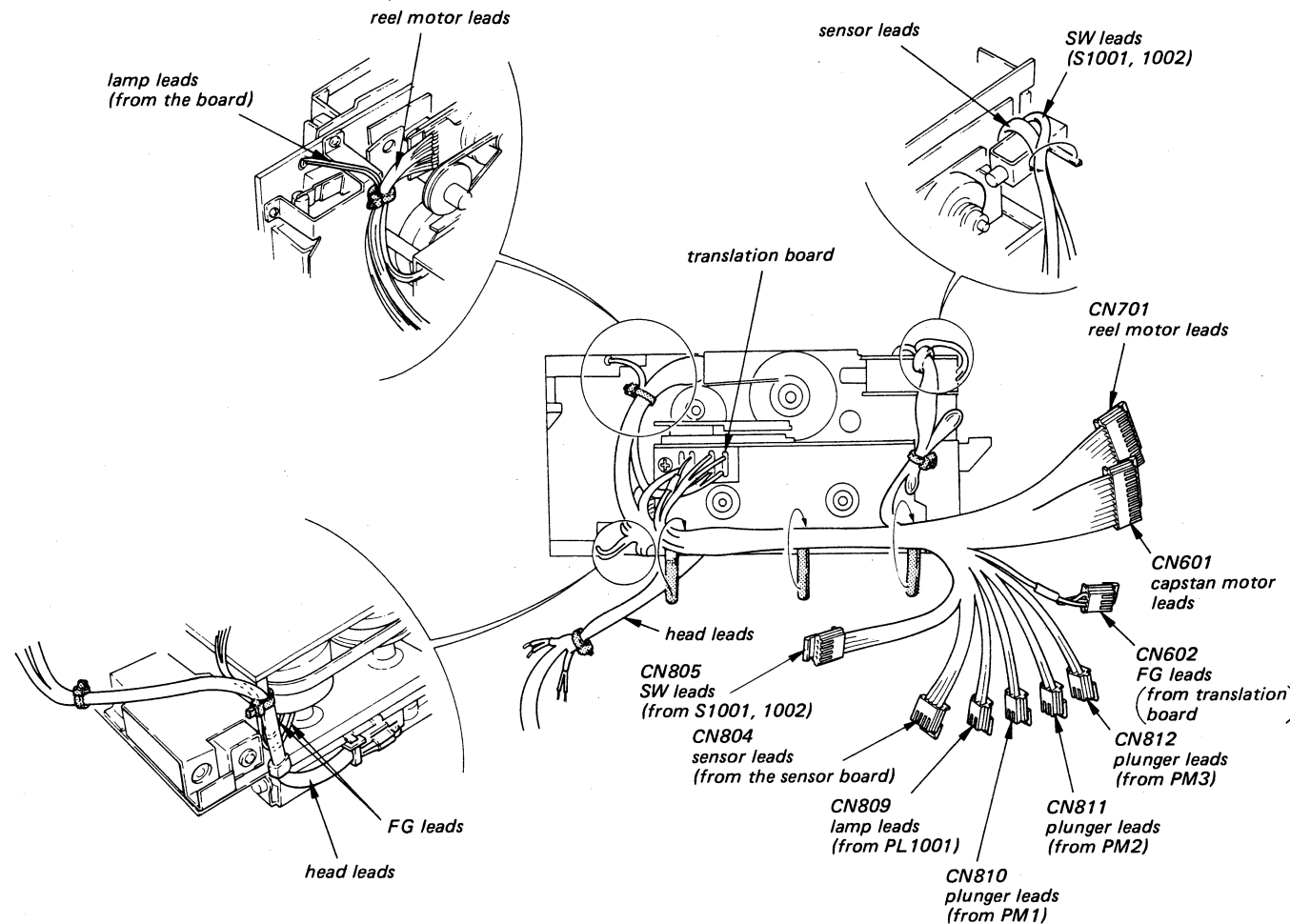


REEL SPINDLE CLAW (USING HEXAGONAL WRENCH (0.89))



SECTION 3 ADJUSTMENTS

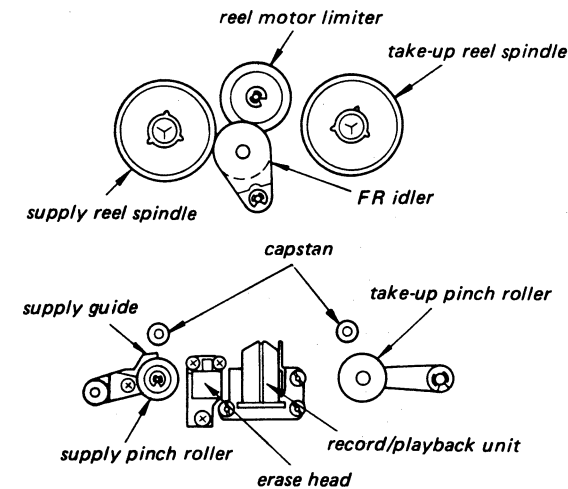
MECHANISM BLOCK WIRING REFERENCE



3-1. MECHANICAL ADJUSTMENTS

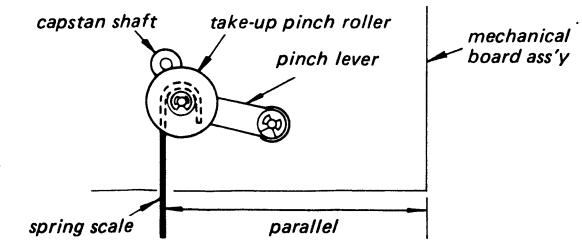
Precaution

1. Clean the following parts with a denatured alcohol-moistened swab.



2. Demagnetize the record/playback head with a head demagnetizer.
3. Do not use a magnetized screwdriver for the adjustments.

Pinch Roller Pressure Adjustment



1. Make sure that the capstan shaft and pinch roller are parallel.
2. In forward mode, pull the spring scale slowly so that it is parallel to the surface of the mechanical board ass'y and read the spring scale when the pinch roller starts rotating.

Specification

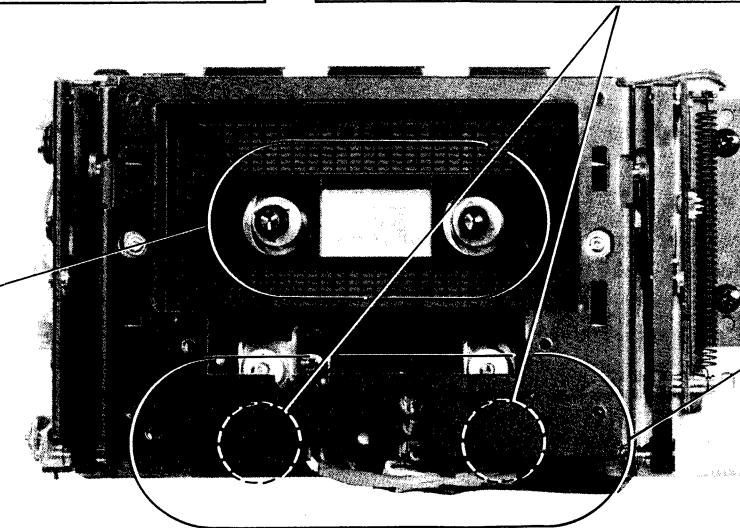
	pinch roller pressure
take-up side	220 – 380 g
supply side	180 – 280 g

3. If necessary, change the position of pinch roller plunger. (Refer to Pinch roller/Head Plunger Position Adjustment on page 18.)

FF-REW Torque Check

Insert cassette torque meter CQ-101B and check the torque in FF-REW modes.

Specification:
More than 70 g-cm
(0.97 oz-inch)

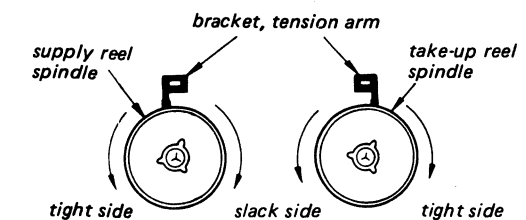


Brake Torque Check

1. Take-up reel brake torque
Place the torque meter on the take-up reel spindle and turn the spindle clockwise. Check that the slack torque is within the specification.
2. Supply reel brake torque
Place the torque meter on the supply reel spindle and turn the spindle counterclockwise. Check that the slack torque is within the specification.

Specification

Tight side: 100 – 200 g-cm (1.4 – 2.8 oz-inch)
Slack side: less than 90 g-cm (1.3 oz-inch)

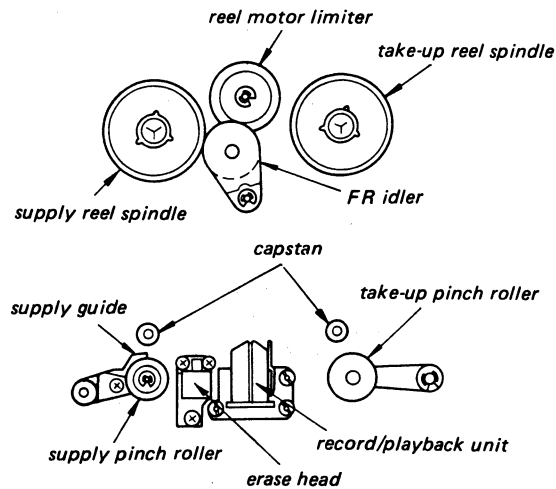


SECTION 3
ADJUSTMENTS

3-1. MECHANICAL ADJUSTMENTS

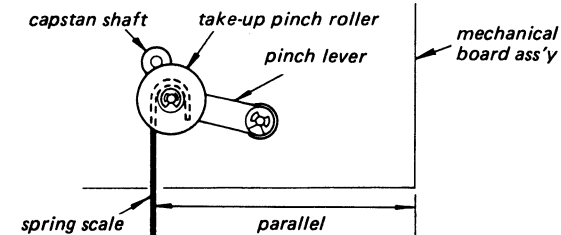
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Specification

	pinch roller pressure
take-up side	220 - 380 g
supply side	180 - 280 g

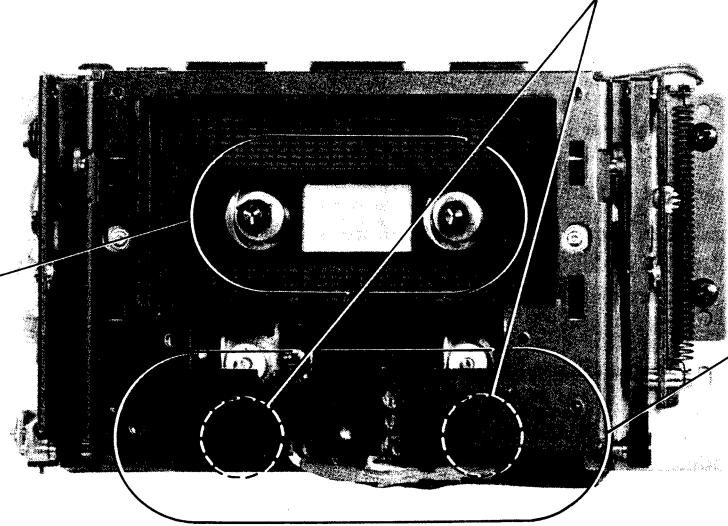
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More than 70 g·cm
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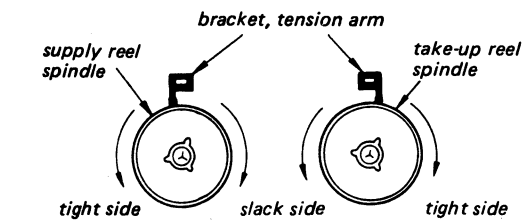


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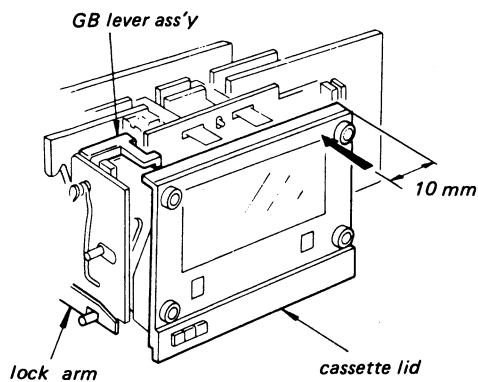
Specification

Tight side: 100 - 200 g·cm (1.4 - 2.8 oz·inch)
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Cassette Holder Operation

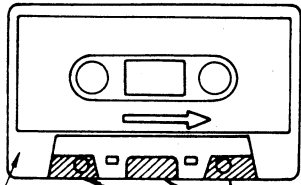
1. Insert a cassette tape (C-90 with erasure prevention tab) into the cassette holder and push the portion slowly shown by the arrow. Make sure that the cassette holder is locked, the GB lever ass'y is lowered and the lock arm returns completely.
2. Make sure that the cassette holder opens smoothly in 0.6 - 1.5 seconds.



Head Height Adjustment

Insert a mirror cassette or adjustment cassette and adjust screws A - C so that the tape enters the tape guide of the record/playback head smoothly when pushing the head base out by hand.

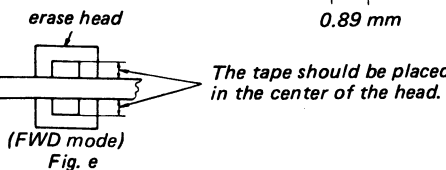
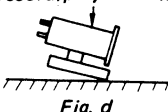
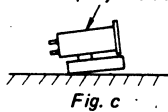
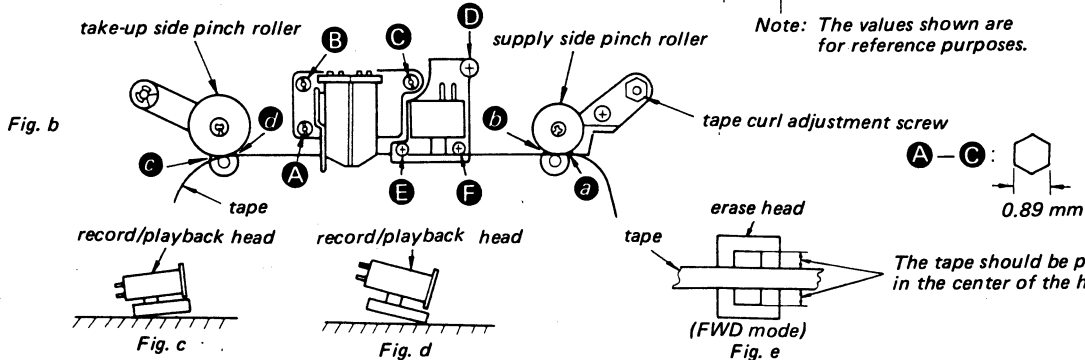
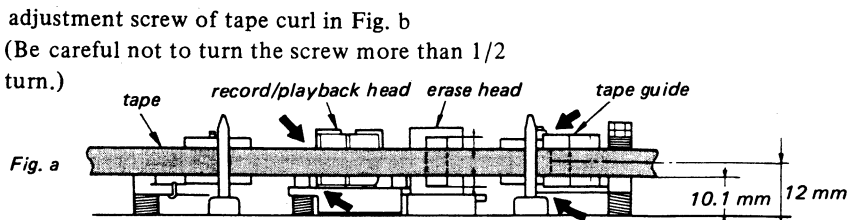
1. Make an adjustment cassette as shown below or use a mirror cassette.



C120 cassette tape Cut out hatched portions.

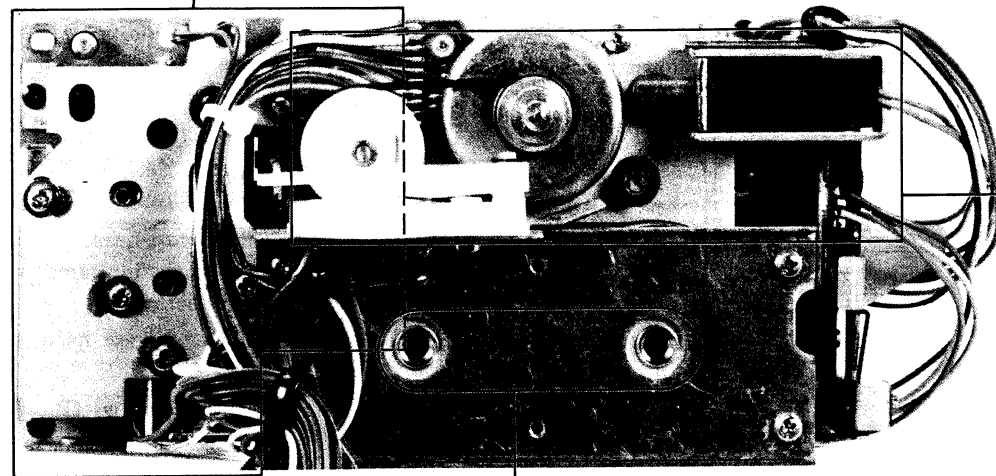
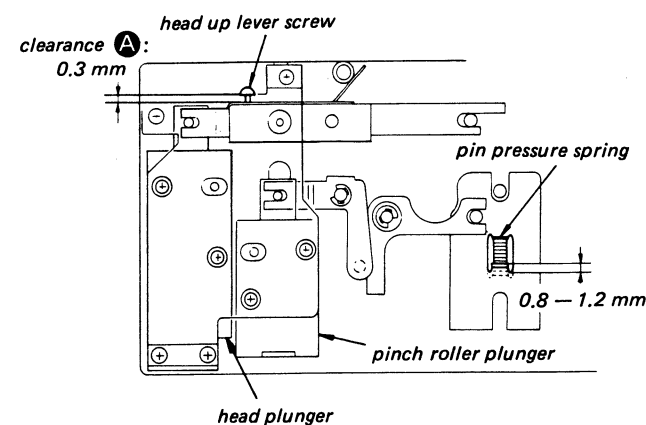
2. Insert the mirror cassette (or adjustment cassette) into the set. In FWD mode, the tape should not curl at the portions shown by arrows (tape guides) in Fig. a.
- If it does, adjust the height of tape guide of supply pinch roller.

Adjustment locations:



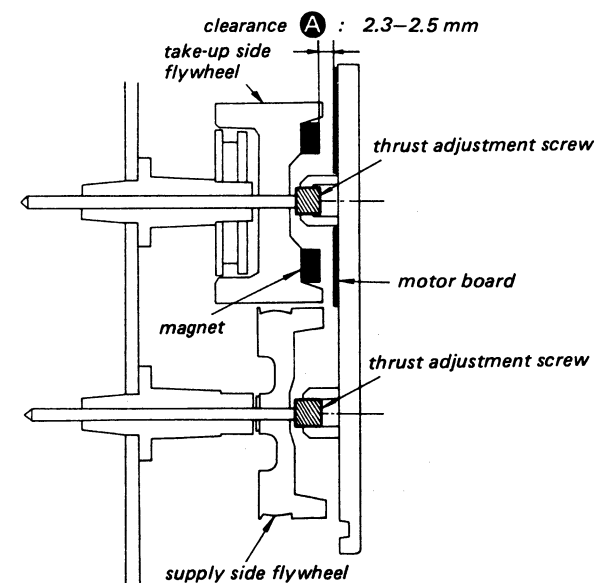
Pinch Roller/Head Plunger Position Adjustment

1. Position the head plunger so that clearance **A** is 0.3 mm.
2. Move the head plunger and the pinch roller plunger and adjust the position of the pinch roller plunger so that the pin pressure spring can move in the range of 0.8 mm — 1.2 mm.
3. Apply the locking compound to the plunger screw.



Take-up Side/Supply Side Flywheel Thrust Adjustment

1. Take-up Side Flywheel
Insert a spacer of 2.4 mm between the flywheel magnet and motor board and adjust the position of the magnet so that clearance **A** is between 2.3 mm and 2.5 mm.
2. Supply Side Flywheel
Tighten the thrust adjustment screw lightly till the flywheel does not move and then loosen it by 1/2 — 3/4 turns.
3. After the adjustment, apply the locking compound to the adjustment screw.



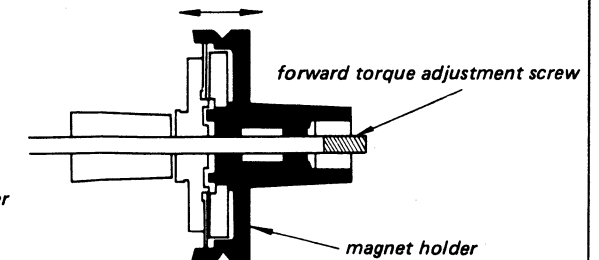
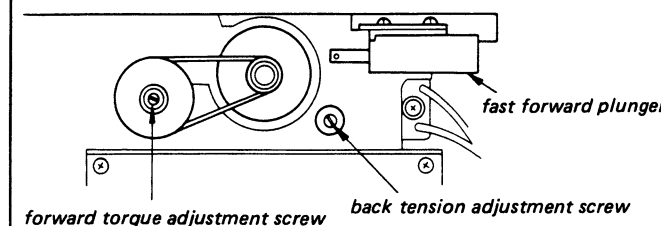
Forward Torque/Back Tension Torque Adjustment

1. Loosen adjustment screws of the forward torque and back tension torque till the magnet holder does not move and then turn them by 1/2 turn clockwise.
2. Connect the cassette torque meter (CQ-102B) and measure forward torque and back tension. If they do not meet the specifications, adjust the back tension adjustment screw.

Specifications:

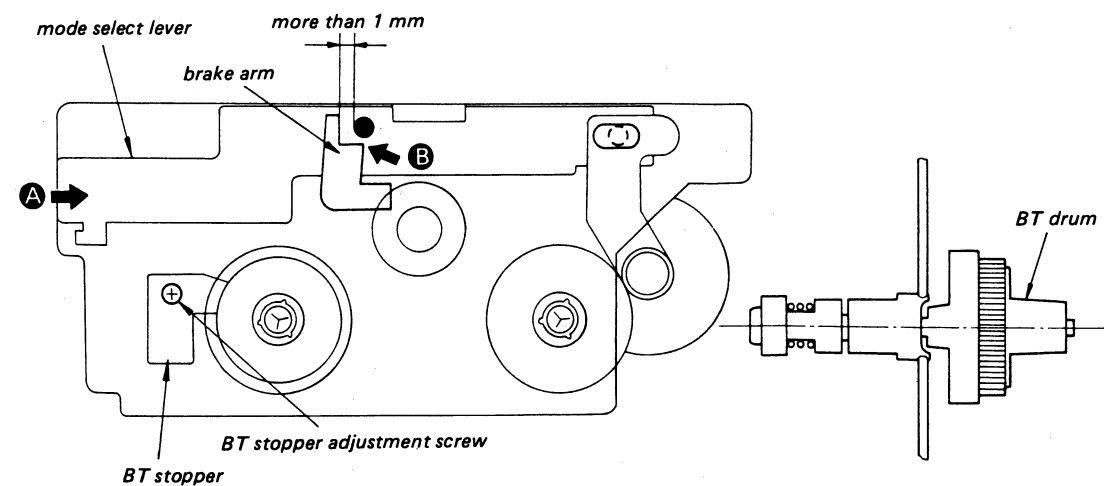
forward torque 35 — 45 g·cm
back tension torque 5.5 — 7.5 g·cm

3. Apply the locking compound to the adjustment screw.



Check of BT Stopper Position

1. Loosen the BT stopper adjustment screw, push the mode select lever in the direction of arrow **A** and fix the BT stopper to the reel spindle with the adjustment screw.
2. Move the brake arm in the direction of arrow **B**, remove the brake from the reel spindle and confirm that the BT drum does not rotate together with the reel spindle.
3. Make sure that the clearance between the mode select lever and the brake arm is more than 1 mm when the mode select lever returns to its original position.



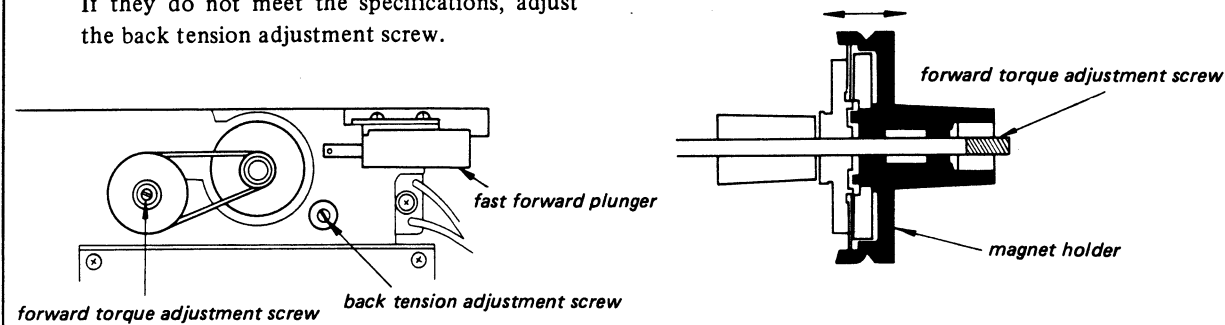
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Specifications:

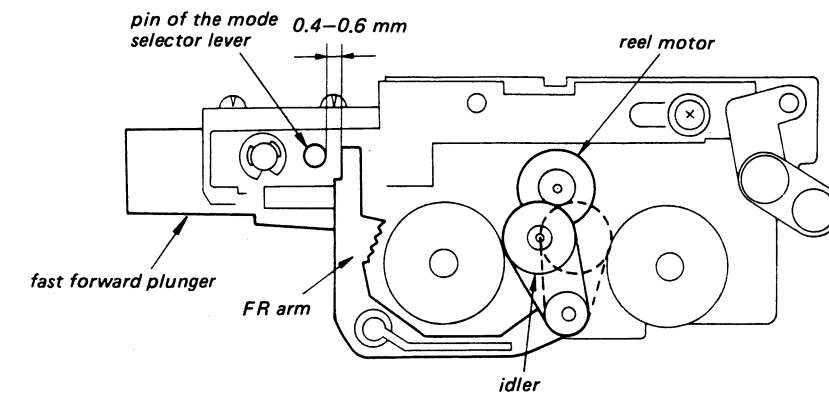
forward torque 35 — 45 g·cm
back tension torque 5.5 — 7.5 g·cm

3. Apply the locking compound to the adjustment screw.



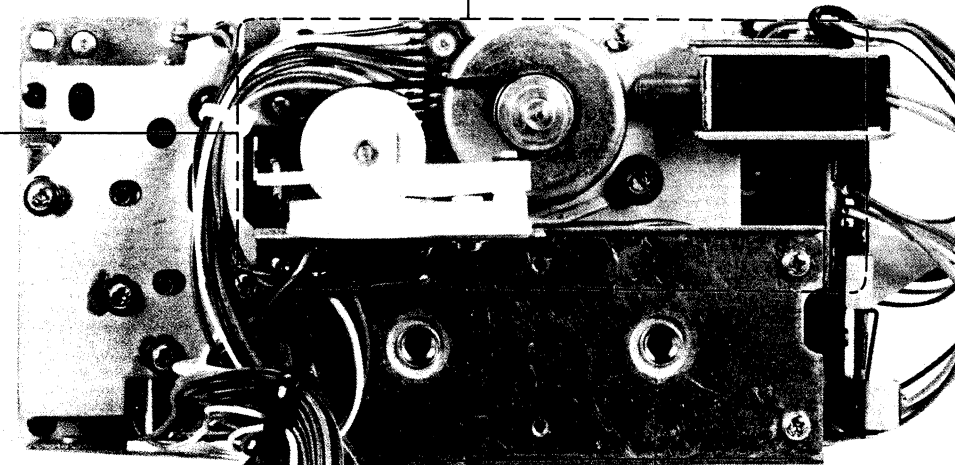
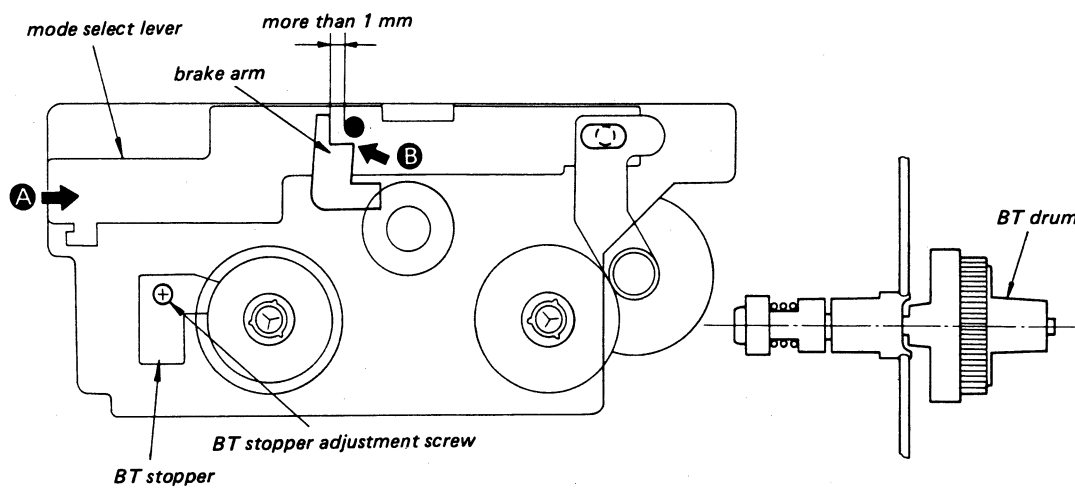
Fast Forward Plunger Position Adjustment

1. Push the fast forward plunger.
2. Turn the reel motor clockwise (fast forward mode). When the idler and the reel spindle come into contact, adjust the position of the fast forward plunger by loosening the screw so that the clearance between the FR arm and the mode selector lever pin is between 0.4 mm and 0.6 mm.
3. Next, turn the reel motor counterclockwise (rewind mode) and adjust to obtain the same result as in step 2.
4. Apply the locking compound to the plunger screw.



Check of BT Stopper Position

1. Loosen the BT stopper adjustment screw, push the mode select lever in the direction of arrow A and fix the BT stopper to the reel spindle with the adjustment screw.
2. Move the brake arm in the direction of arrow B, remove the brake from the reel spindle and confirm that the BT drum does not rotate together with the reel spindle.
3. Make sure that the clearance between the mode select lever and the brake arm is more than 1 mm when the mode select lever returns to its original position.



3-2. ELECTRICAL ADJUSTMENTS

Note: The adjustment should be performed in the order given in this service manual. The adjustments should be performed for both L-CH and R-CH.

- Set the TAPE switch according to the test tape as follows.

Tape	TAPE Switch
CS-121	TYPE I
CS-210	TYPE II
CS-42	TYPE IV

- Switches and controls should be set as follows unless otherwise specified.

CALIBRATION MODE OFF
 REC LEVEL (L/R) MID
 CALIBRATION BIAS
 REC LEVEL MID
 DOLBY NR OFF
 TAPE TYPE I
 LINE OUT 0 dB
 MONITOR SOURCE
 TIMER OFF

- Standard Record:

Deliver the standard input signal level to the input jack and set the REC LEVEL control to obtain the standard output signal level.

Standard Input Level

Input Terminal	LINE IN
source impedance	10 k Ω
input level	0.25 V (-10 dB)

Standard Output Level

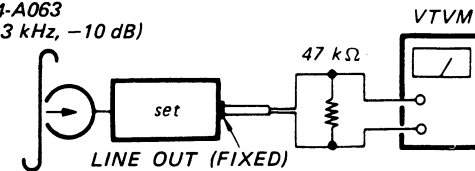
Output Terminal	HEADPHONES	LINE OUT
load impedance	47 k Ω	8 Ω
output level	0.44 V (-5 dB)	39 mV (-27 dB)

Record/Playback Head Azimuth Adjustment

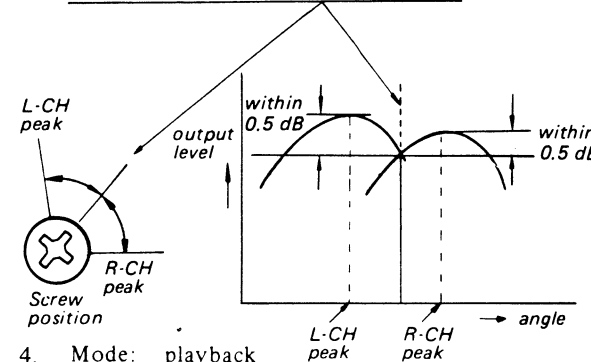
Procedure:

- Loosen the adjustment screw.
- Mode: playback

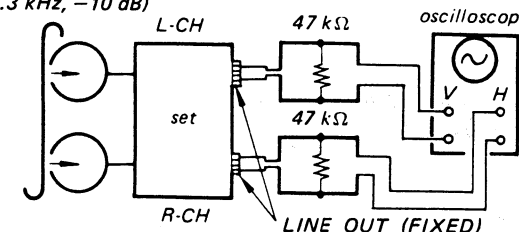
test tape P-4-A063
(6.3 kHz, -10 dB)



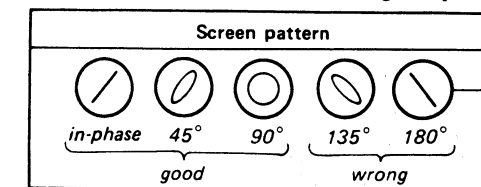
- Turn the adjustment screw for the maximum output levels. If these levels do not match, turn the adjustment screw until both of output levels match together within 0.5 dB.



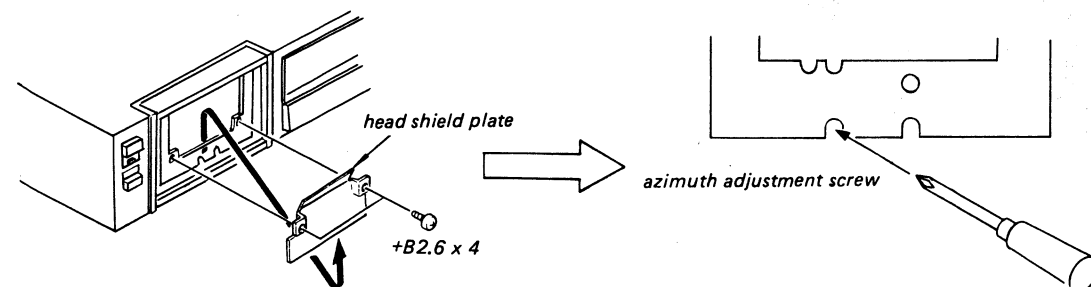
- Mode: playback
test tape P-4-A063
(6.3 kHz, -10 dB)



Adjust the adjustment screw for a good pattern.



- Adjust the azimuth adjustment screw for the same phase in L-CH and R-CH.
- After adjustment, tighten the screw.

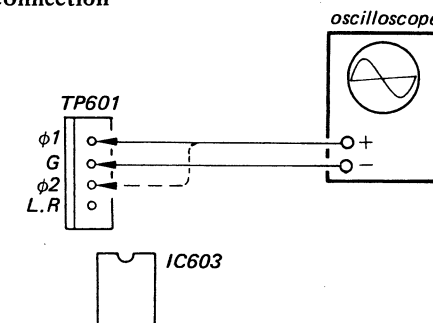


Capstan Motor Adjustment

Procedure:

- Turn the POWER switch ON. Put into STOP mode.
- Set S601 to gain side fully-counterclockwise and connect oscilloscope to TP601.
- Confirm that oscilloscope point 0 is on the intersection of X-axis and Y-axis.
- Adjust the variable resistor so that the $\phi 1$, $\phi 2$ resurge waveform is a 7 V diameter circle centered around point 0.

- Connection



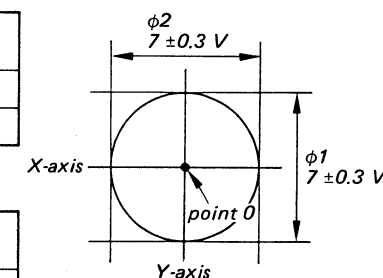
- Specification

Gain (output)

Oscilloscope Connection	Variable Resistor
TP601 ($\phi 1$)	RV603
TP601 ($\phi 2$)	RV604

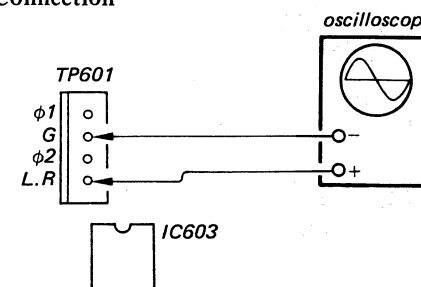
Offset

Oscilloscope Connection	Variable Resistor
TP601 ($\phi 1$)	RV601
TP601 ($\phi 2$)	RV602

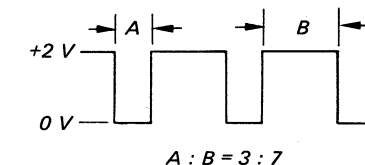


- Switch S601 to servo side fully-clockwise.
- Adjust RV605 so that TP601 servo output square wave is between 0 V and 2 V and duty is 3 : 7.
- After adjustment, set to FWD with cassette inserted and confirm that the TP601 servo output square wave does not change much.

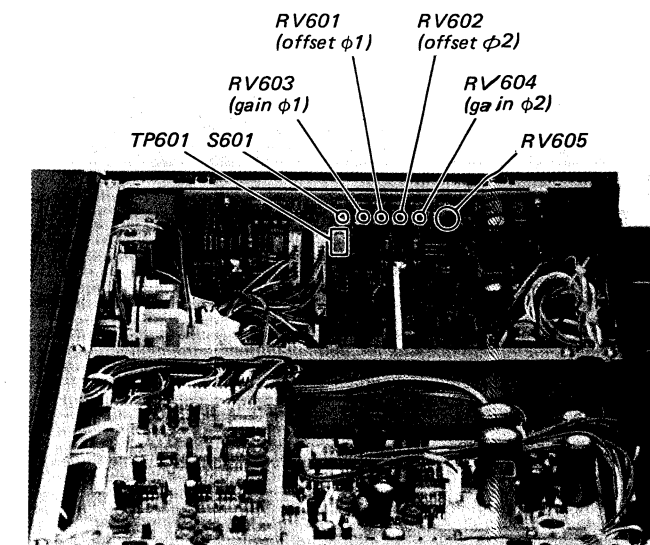
- Connection



- Specification



Adjustment Location: servo board

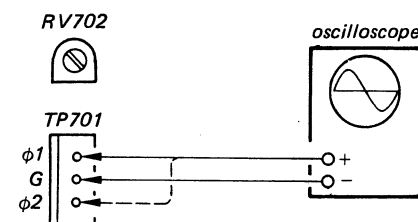


Reel Motor Adjustment

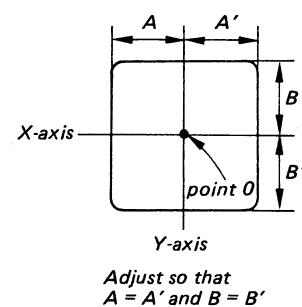
Procedure:

1. Confirm that oscilloscope point 0 is on the intersection of X-axis and Y-axis.
2. Insert the cassette tape and put into FWD mode.
3. Adjust RV701 and RV702 so that the TP701 output waveform is equidistant from point 0 on all sides, as shown below. ($\phi 1$, $\phi 2$ offset adjustment.)

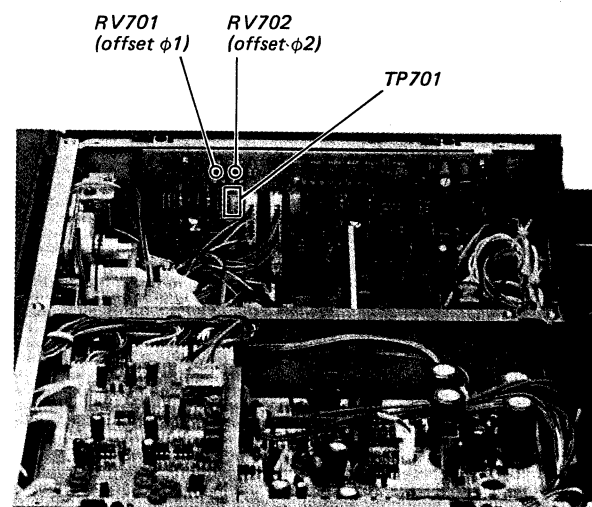
• Connection



• Specification



Adjustment Location: servo board

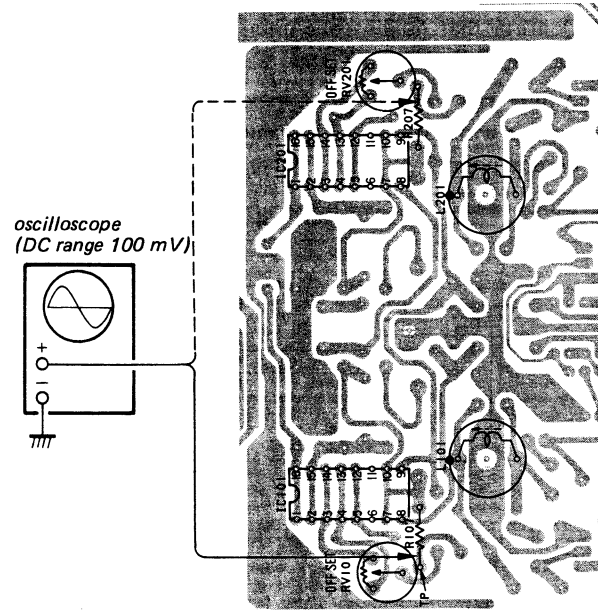


Playback Offset Adjustment

Procedure:

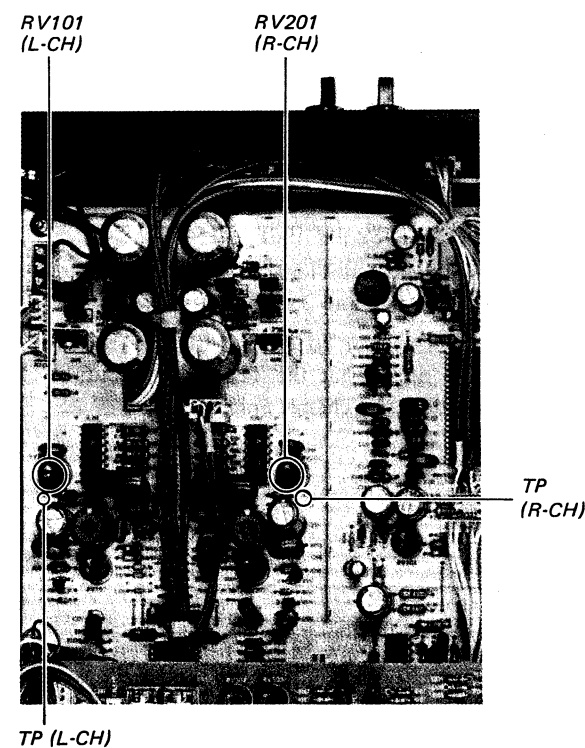
1. Adjust RV107 (L-CH) and RV207 (R-CH) so that output level at test point of R107 (L-CH) and R207 (R-CH) is 0 V.

• Connection



- Specification
0 V \pm 100 mV

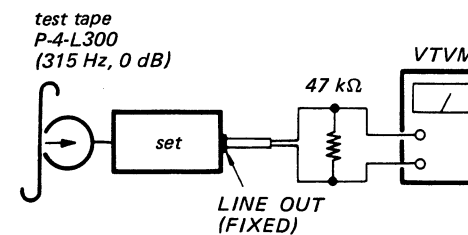
Adjustment Location: audio board



Playback Level Adjustment

Procedure:

Mode: playback



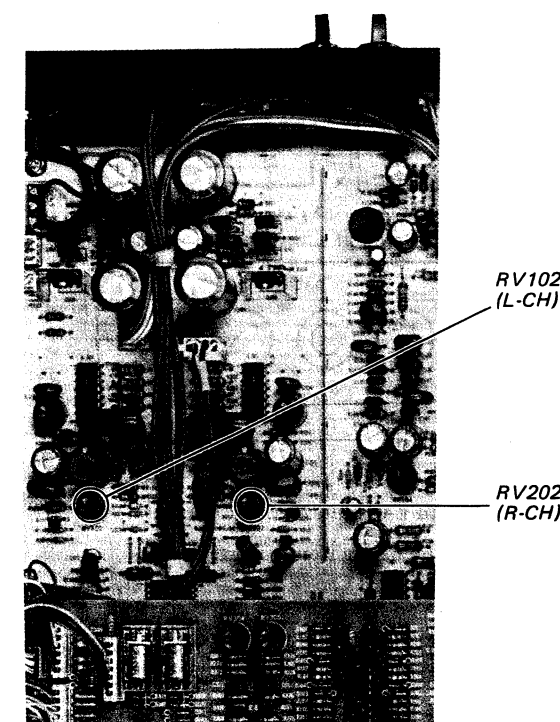
Adjust RV102 (L-CH) and RV202 (R-CH) to obtain the specified LINE OUT level.

Specification:

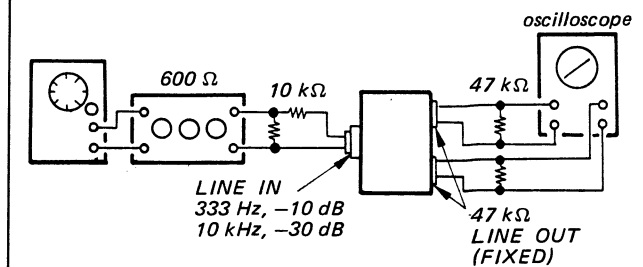
- LINE OUT level: 0.42 to 0.45 V
(-5.3 to -4.7 dB)
- Level difference between channels:
less than 0.5 dB

Check that the LINE OUT level does not change in playback mode while changing the mode from playback to stop several times.

Adjustment Location: audio board



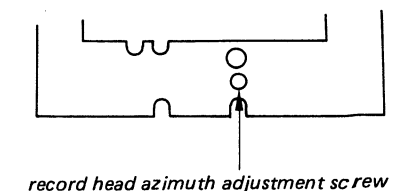
Record Head Azimuth Adjustment



1. Apply a 333 Hz, -10 dB signal to LINE IN, and adjust REC VOL so that LINE OUT is -5 dB.
2. Loosen CT301-1 and CT301-2 about 1/2-1 rotation from the fully tightened state.
3. Apply a 10 kHz, -30 dB signal to LINE IN and simultaneously record and playback.
4. Adjust the recording head azimuth adjustment screw so that L-CH and R-CH outputs are maximum and so that phases are equal.

Specification:

The level difference at the point where outputs are maximum and phases match must be within 1 dB.



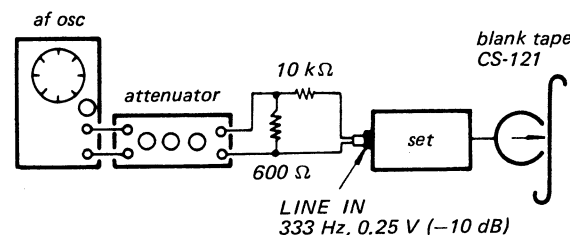
Record Level Adjustment

Setting:

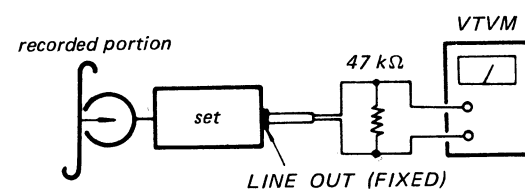
REC LEVEL control: standard recrod
LINE IN: -10 dB 333 Hz
LINE OUT: -5 dB

Procedure:

1. Mode: record



2. Mode: playback

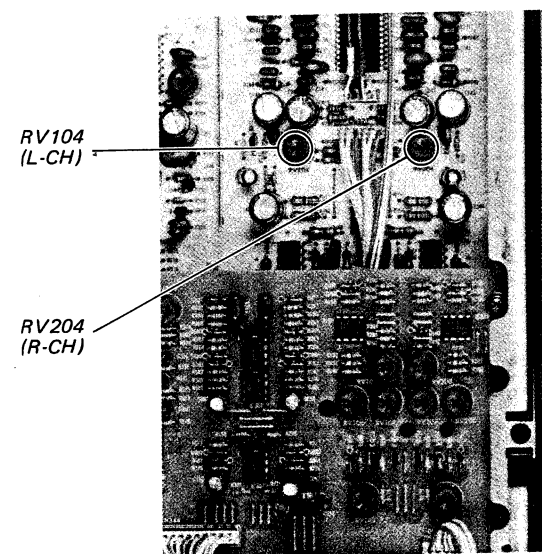


Adjust RV104 (L-CH) and RV204 (R-CH) to obtain -5 dB LINE OUT level.

Specification:

LINE OUT level: 0.41 to 0.46 V
(-5.5 to -4.5 dB)

Adjustment Location: audio board



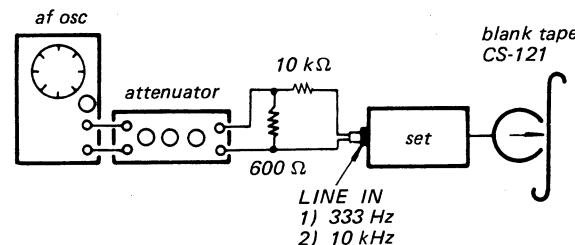
Record Bias Adjustment

Setting:

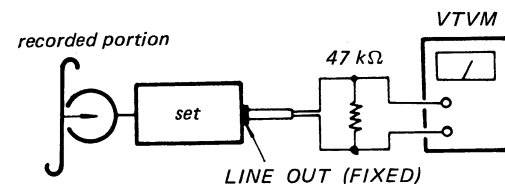
REC LEVEL control: standard record
LINE IN: -10 dB
LINE OUT: -5 dB

Procedure:

1. Mode: record



2. Mode: playback



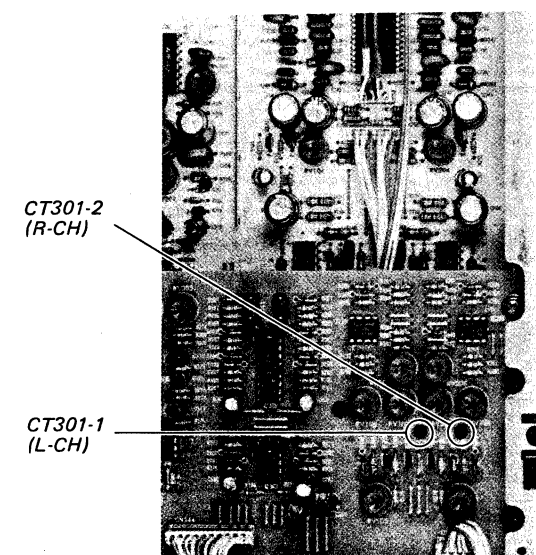
Adjust CT301-1 (L-CH) and CT301-2 (R-CH) to obtain the same playback level at 333 Hz and 10 kHz.

3. Repeat steps 1 and 2. Be sure to finish adjusting CT301-1 and CT301-2 by turning them clockwise.

Specificaion:

Difference between 333 Hz and 10 kHz:
-0.5 to 0.5 dB

Adjustment Location: audio board



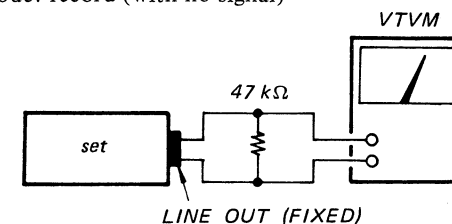
Bias Trap and Bias Osc Frequency Adjustments

Setting:

TAPE switch: TYPE IV
MONITOR switch: TAPE

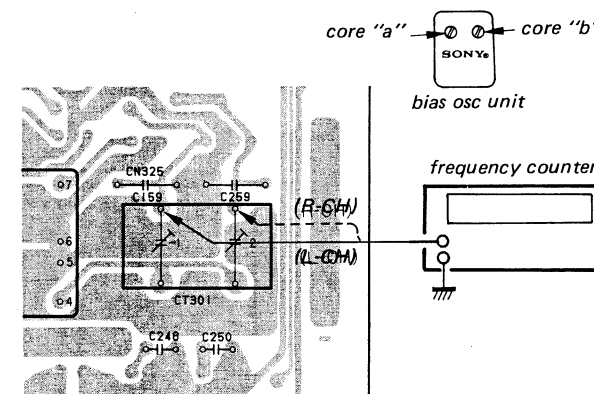
Procedure:

1. Mode: record (with no signal)

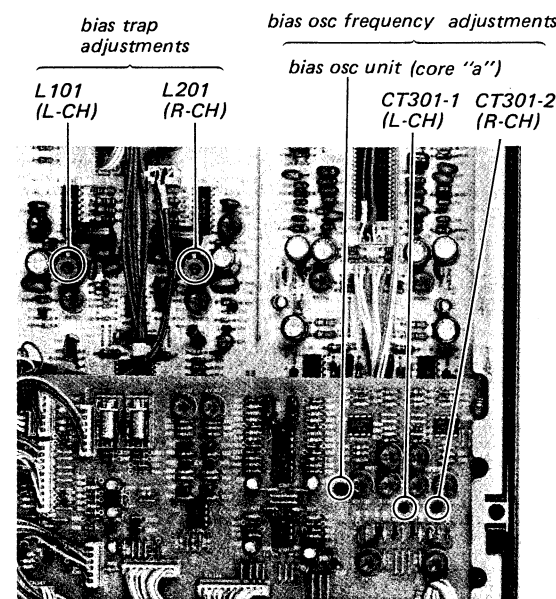


2. Adjust L101 (L-CH) and L201 (R-CH) so that LINE OUT level is less than 2.75 mV (-49 dB).

3. In bias trap adjustment state connect a frequency counter to a trimmer capacitor (CT301-1 or CT301-2) and adjust bias oscillation frequency with bias oscillator core "a".



Adjustment Location: audio board



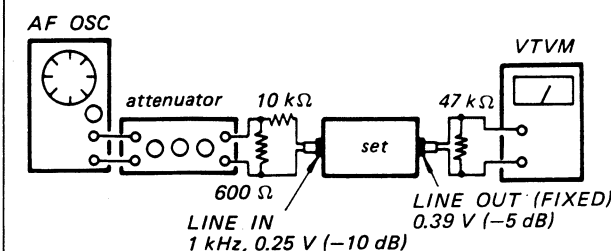
Meter Calibration

Setting:

PEAK HOLD reset switch: MANUAL
REC LEVEL control: LINE IN: -10 dB, 1 kHz
LINE OUT: -5 dB

Procedure:

1. Mode: record



2. Apply a 333 Hz, -10 dB to LINE IN and adjust REC VOL so that LINE OUT level is -5 dB.

3. Set RV106 and RV206 MIN and adjust RV107 and RV207 so that LOW segment lights-up dimly as shown in Fig. 1.

4. LOW segment should go out when the input level is set to -10.3 dB.

5. Adjust RV106 and RV206 so that LOW segment lights up dimly pushing PEAK HOLD MANUAL switch when the input level is set to -10.3 dB.

6. LOW segment should light up completely when the input level is set to -10 dB.

7. Set the input level -10 dB and adjust REC VOL so that LINE OUT output is +9 dB.

8. Lower the input 0.3 dB so that LINE OUT output is +8.7 dB.

While pushing PEAK HOLD MANUAL switch, adjust RV108 and RV208 so that the segment lights up dimly as shown in Fig. 2.

9. Adjust the input level so that LINE OUT output is +9 dB. At this time, the segment in Fig. 2 should light up completely.

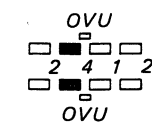


Fig. 1

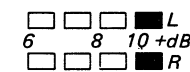
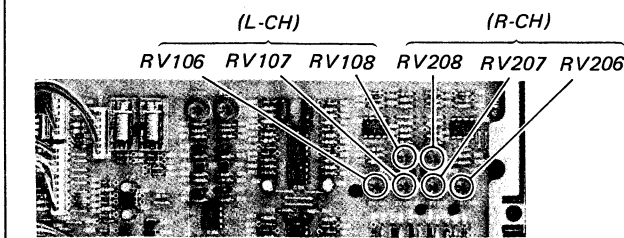


Fig. 2

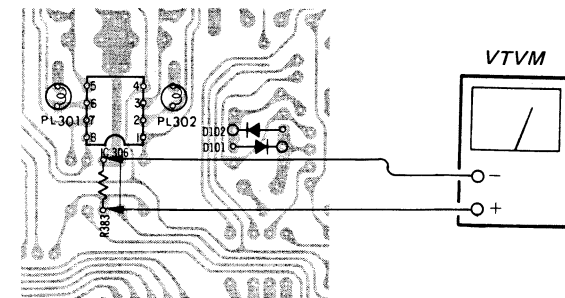
Adjustment Location: control board



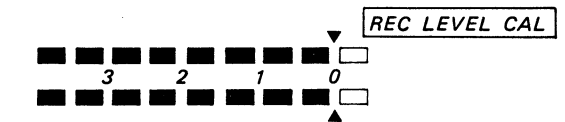
REC LEVEL CAL Adjustment

Setting:
CALIBRATION MODE switch: REC LEVEL

- Procedure:
1. Mode: record
 2. Adjust RV304 so that the level at the check point (R383) is 3.88 mV (−46 dB).



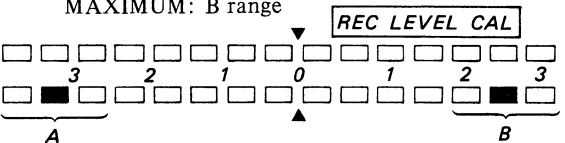
3. Insert CS-26 (unrecorded tape) and in simultaneous record/play state, adjust RV105 (L-CH) and RV205 (R-CH) immediately after the segment above 0 dB on the meter goes out.



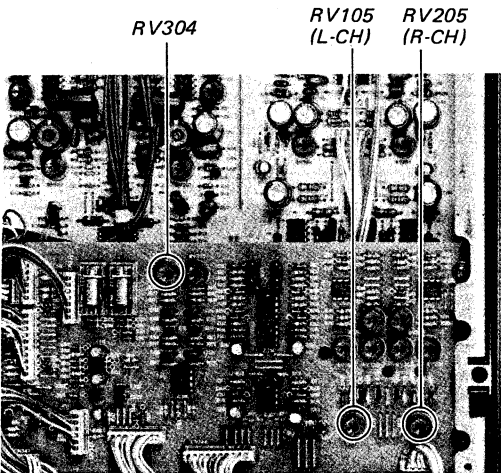
4. Make sure that indication of meter varies as follows when turning REC LEVEL CAL control from mechanical center to MIN and to MAX.

The right segment should be lit up in the following range.

MINIMUM : A range
MAXIMUM: B range



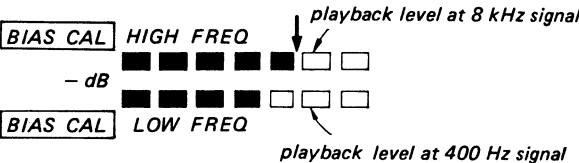
Adjustment Location: control board



Bias Cal Adjustment

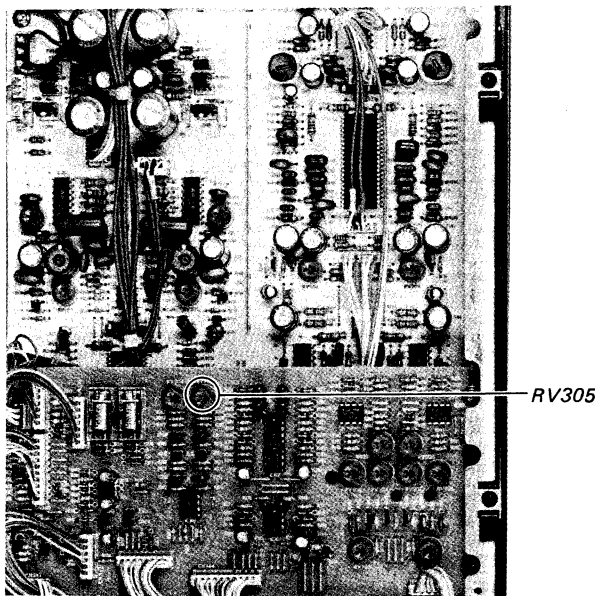
Setting:
CALIBRATION MODE switch: BIAS

- Procedure:
1. Simultaneously record/play state set MONITOR switch to TAPE, insert CS-26 (unrecorded tape), and adjust RV305 so that the LOW FREQ maximum lit element and HIGH FREQ element above it light up completely (the 2 above may blink).



2. Make sure that elements of HIGH FREQUENCY (upper side) vary when turning BIAS CAL control from the mechanical center to MIN nad to MAX. Relative to level at BIAS CAL control center.
MIN : +5 element
MAX: −5 element

Adjustment Location: control board



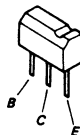

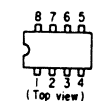
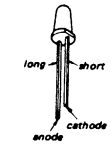
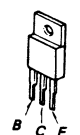
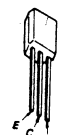
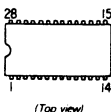
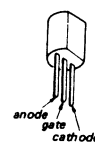

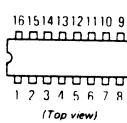
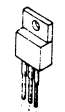
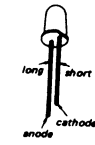
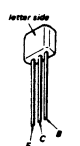
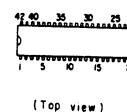
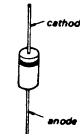
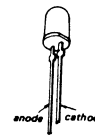
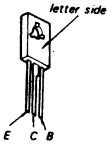
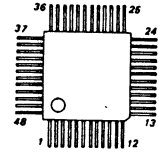
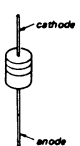
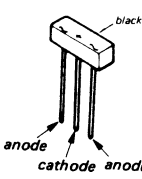
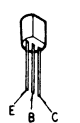
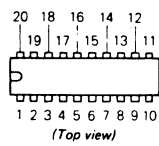
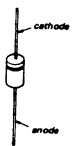
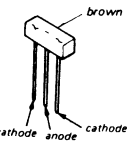
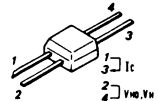
IC01, IC601, IC602, IC801 PIN AND VOLTAGE DURING OPERATION

Pin No.	Waveform or Voltage	Pin No.	Waveform or Voltage	Pin No.	Waveform or Voltage
IC01 ①, ②⑧		⑩		②⑤, ②⑦	
IC601 ⑧		⑪, ⑬		②⑥	
IC602 ⑦		⑭	0.1V	②⑨	
⑧		⑮			
		⑯			
IC801 ①, ②		⑰		③①	5V TIMER PLAY: 0V (S801)
③, ④		⑱, ⑳		③②	5V TIMER REC: 0V (S801)
		⑳	4.8V	③③	5V
⑤, ⑧	0V	⑳		③④	5V HOLDER OPEN: 0V
⑨		⑳		③⑤, ④①	5V during pushing the control buttons 0.2V
		⑳		④②	5V

Note: Voltages are measured with the oscilloscope with 10 kΩ probe in this tape. So they differ from the value on the schematic and mounting diagrams a little.

SECTION 4
DIAGRAMS

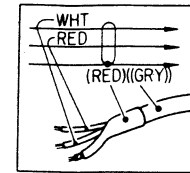
• Semiconductor Lead Layouts

<p>2SA937 2SC2021</p> 	<p>2SC1815-GR 2SC3622A-K 2SD1388</p> 	<p>M5238P MSM58141RS NE5532P NJM4560D μPC4558C</p> 	<p>AA5525S BR5525S</p> 
<p>2SA985-P 2SC2275-P 2SD1266-Q</p> 	<p>2SC2603F 2SC2785 2SD1012-F2 DTA114ES DTC114ES DTC144ES</p> 	<p>MSL9357RS MSL9358RS μPD550C-047</p> 	<p>N13T1</p> 
<p>2SA1138 2SB734 2SC2627 2SD774</p> 	<p>CX10031A M5240P M5240PR</p> 	<p>μPC78M05H</p> 	<p>PG5525SX</p> 
<p>2SA1175 2SC2785 2SD1020</p> 	<p>CX20188 MB8841H-1443K</p> 	<p>1S1555 10DF2 10YD1.3A 11E2 20E2H HZ6B1L HZ11B1L HZ12A1 HZ12C3L HZ16-1L HZ20-2L HZ27-1L HZ33-1L</p> 	<p>PY5525S</p> 
<p>2SB731 2SD809</p> 	<p>DN6838A</p> 	<p>1SS202-1</p> 	<p>S3VC40</p> 
<p>2SB1014</p> 	<p>M50761-417P</p> 	<p>30DF2 EQB01-06</p> 	<p>S3VC40R</p> 
		<p>THS102A</p> 	

4-1. MOUNTING DIAGRAM — AUDIO BLOCK —

Note:

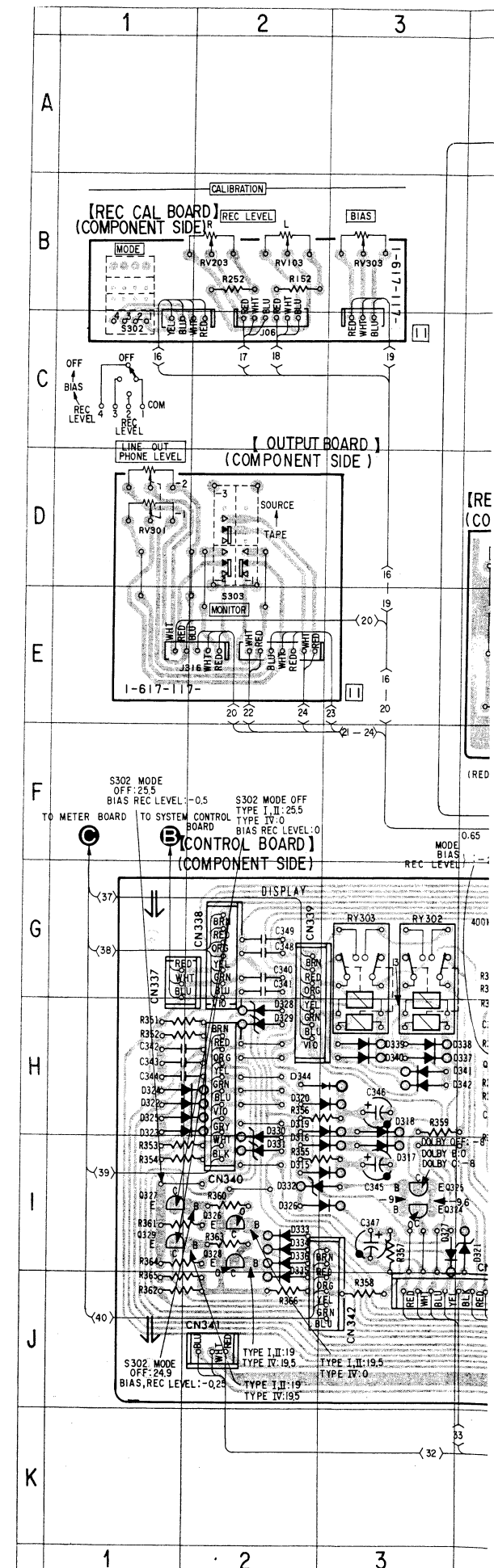
- Color code or sleeving over the end of the jacket.

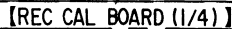


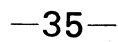
- ○ : parts extracted from the component side.
- ● : parts extracted from the conductor side.
- □ : indicates side identified with part number.
- ⊕ : fusible resistor.
- ■ : part mounted on the conductor side.

• SEMICONDUCTOR LOCATION

Ref. No.	Location	Ref. No.	Location
D101	I-5	IC101	D-10
D102	I-5	IC102	F-14
D103	H-5	IC103	G-7
D104	H-5	IC201	D-12
D105	G-5	IC202	F-15
D106	I-7	IC203	G-8
D107	G-5	IC301	G-11
D108	G-7	IC302	E-11
D109	G-7	IC303	I-10
D201	I-6	IC304	B-15
D202	I-6	IC305	C-15
D203	H-6	IC306	I-4
D204	H-6	IC307	I-6
D205	G-6	IC308	H-6
D206	I-8	IC309	H-6
D207	G-6		
D208	G-8	Q101	E-10
D209	G-8	Q102	E-14
D301	B-10	Q103	I-7
D302	B-11	Q104	I-7
D303	B-12	Q201	E-13
D304	B-11	Q202	E-16
D305	H-13	Q203	I-8
D306	H-13	Q204	I-8
D307	J-10	Q301	B-10
D308	J-10	Q302	B-10
D309	I-11	Q303	B-10
D310	I-12	Q304	C-10
D311	J-12	Q305	B-12
D313	I-12	Q306	B-12
D314	G-13	Q307	B-12
D315	I-3	Q308	C-12
D316	I-3	Q309	J-13
D317	I-3	Q310	J-13
D318	H-3	Q311	J-13
D319	H-3	Q312	H-13
D320	H-3	Q313	H-13
D321	I-4	Q314	J-10
D322	H-1	Q315	J-10
D323	H-1	Q316	F-13
D324	H-1	Q317	E-12
D325	H-1	Q318	I-12
D326	I-3	Q319	H-13
D327	I-3	Q320	H-13
D328	H-2	Q321	I-12
D329	H-2	Q322	I-12
D330	I-2	Q323	E-13
D331	I-2	Q324	I-3
D332	I-2	Q325	I-3
D333	I-2	Q326	I-2
D334	I-2	Q327	I-1
D335	J-2	Q328	I-2
D336	I-2	Q329	I-1
D337	H-3	Q330	H-4
D338	H-3	Q331	H-4
D339	H-3		
D340	H-3		
D341	H-3		
D342	H-3		
D343	G-8		
D344	H-3		
D345	I-12		







The schematic diagram illustrates the internal architecture of the 6800 microprocessor. It features two main processing blocks, each containing a Multiplexer (MOA), a High-Level Shift Register (H L S), a High-Delay Element (H DET), a Low-Delay Element (L DET), and a Low-Level Shift Register (L L S). The top block is connected to RECORD IN (pin 41), CAL IN (pin 40), PLAYBACK IN (pin 39), and LINE OUT (pin 34). The bottom block is connected to RECORD IN 2 (pin 2), CAL IN 2 (pin 1), PLAYBACK IN 2 (pin 3), and LINE OUT 2 (pin 9). The diagram also shows various control and status signals, including MODE CTRL (pin 10), IREF (pin 11), and VCC (pin 1). The internal components are interconnected via a series of buses and control lines, with pins numbered 1 through 42.

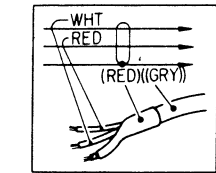
Ref. No.	Switch	Position
S301-1	TYPE I (NORM)	ON
S301-2	TYPE II (CrO ₂)	OFF
S301-3	TYPE IV (METAL)	OFF
S301-4	MPX FILTER	OFF
S302	MODE	OFF
S303	MONITOR	TAPE
S601	SERVO/GAIN	SERVO
S801	TIMER	OFF
S851	REW	OFF
S852	STOP	OFF
S853	FWD	OFF
S854	FF	OFF
S855	REC	OFF
S856	PAUSE	OFF
S857	REC MUTE	OFF
S901	POWER	ON
SW01	RESET	OFF
SW02	MEMORY	OFF
SW03	DOLBY B	OFF
SW04	DOLBY C	OFF
SW05	OFF (STRAIGHT)	OFF
SW06	AUTO	OFF
SW07	MANUAL	OFF

4-3. MOUNTING DIAGRAM - SYSTEM CONTROL BLOCK -

- See page 29 for Semiconductor Lead Layouts.

Note:

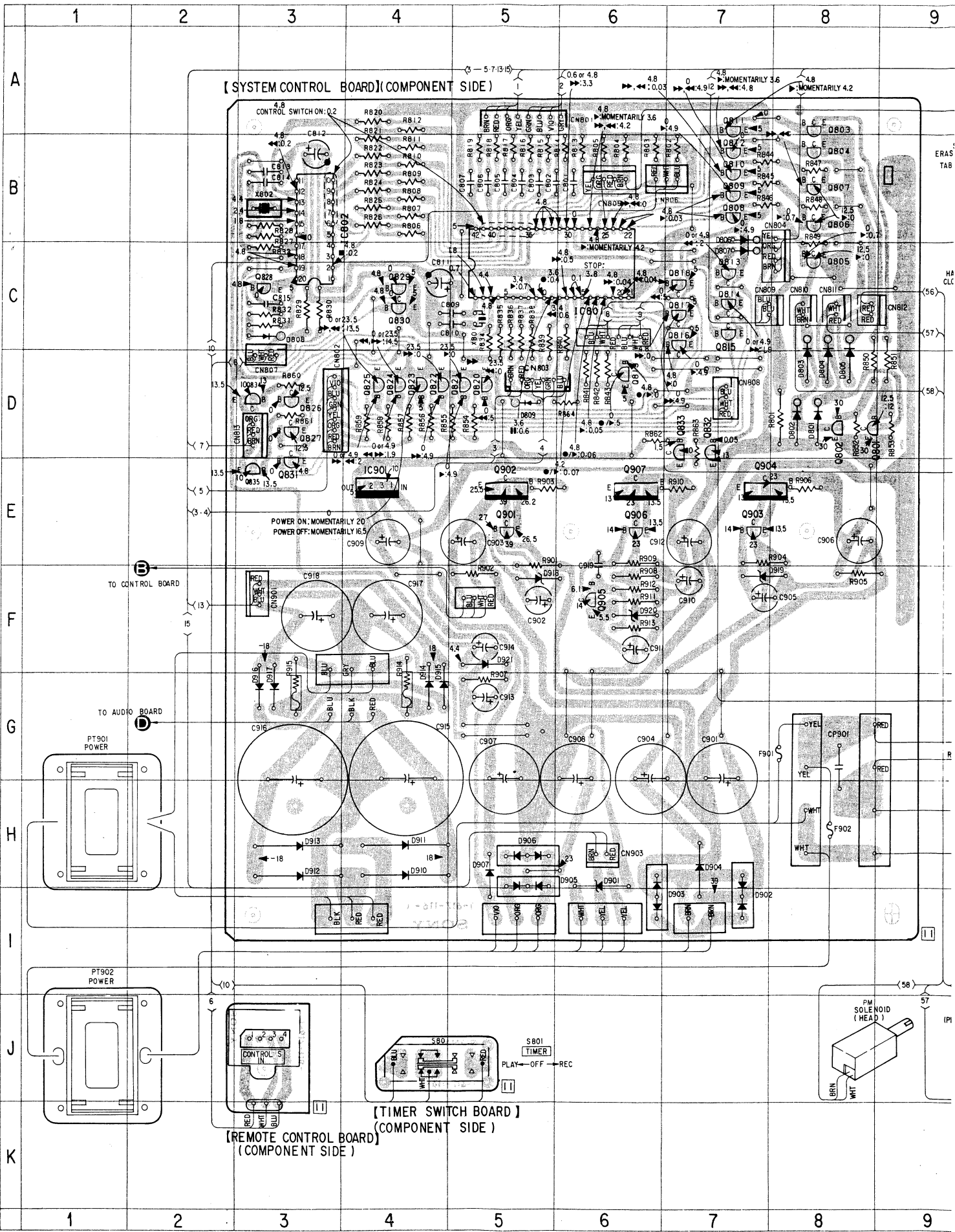
- Color code or sleeving over the end of the jacket.

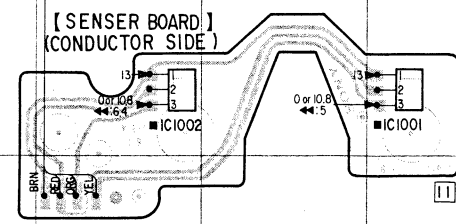
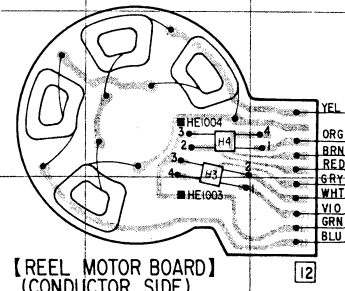
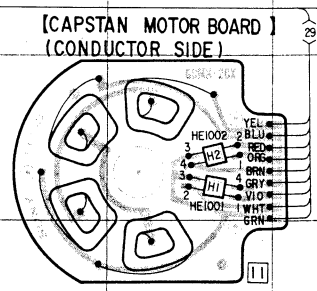
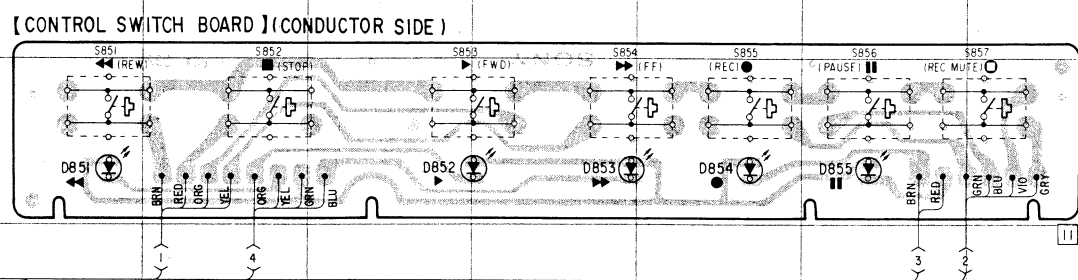
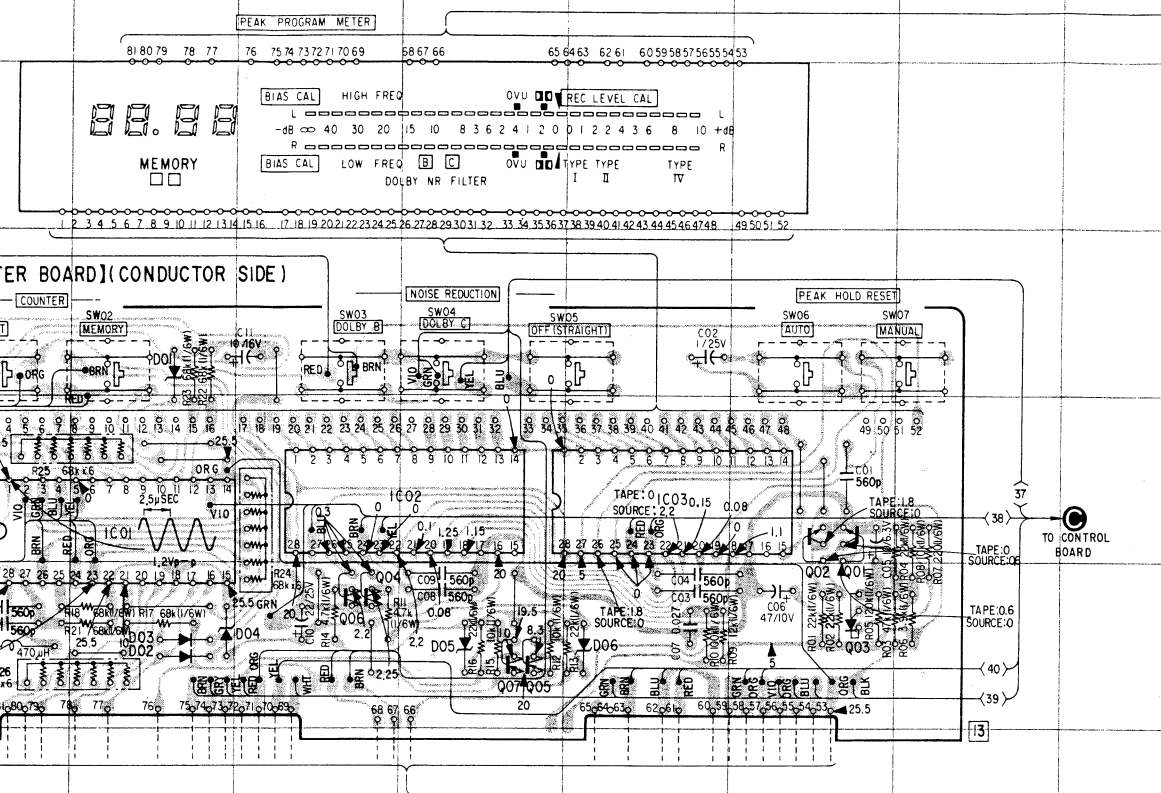
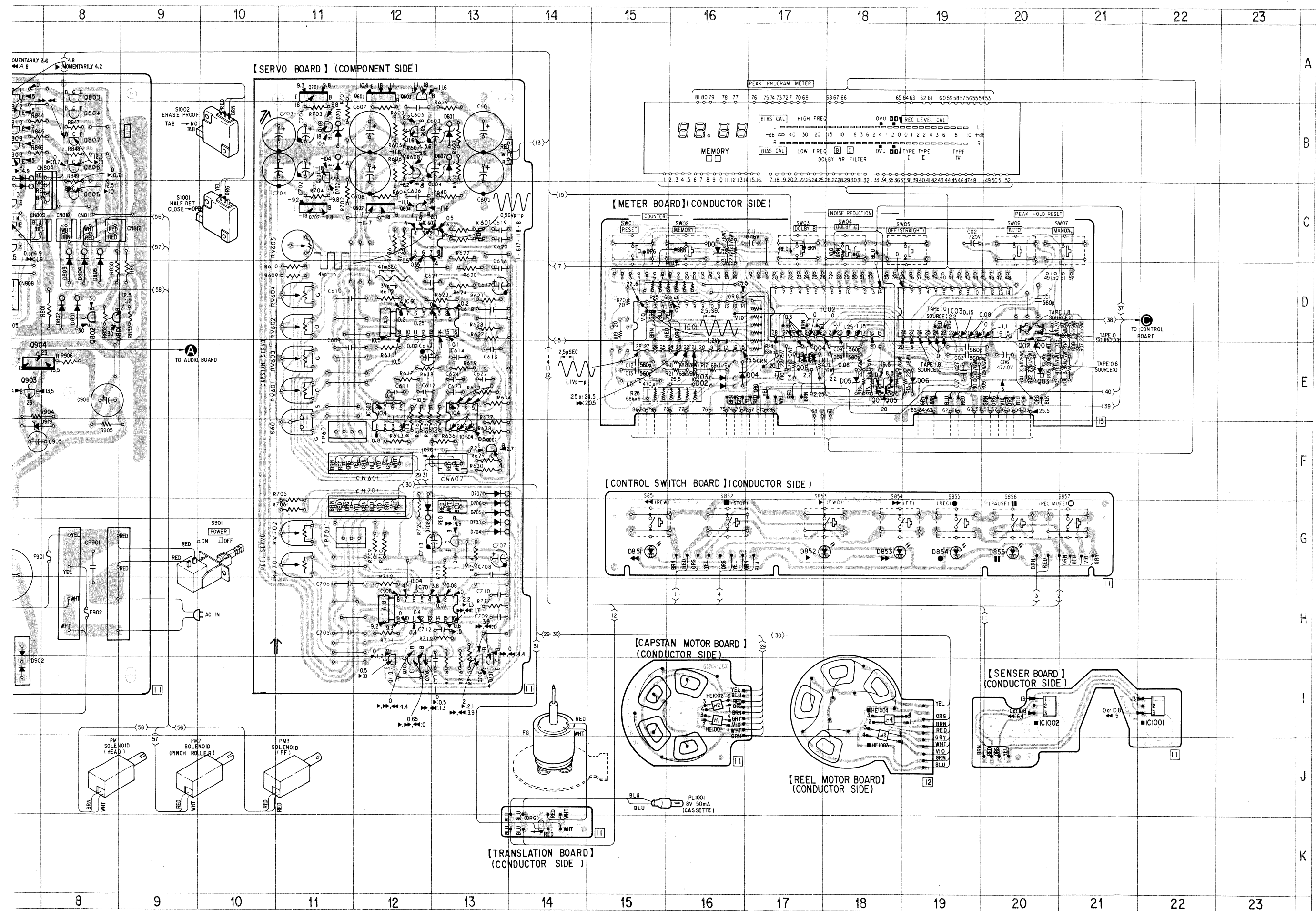


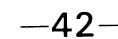
- : parts extracted from the component side.
- : parts extracted from the conductor side.
- : indicates side identified with part number.
- ⊕ : fusible resistor.
- : part mounted on the conductor side.

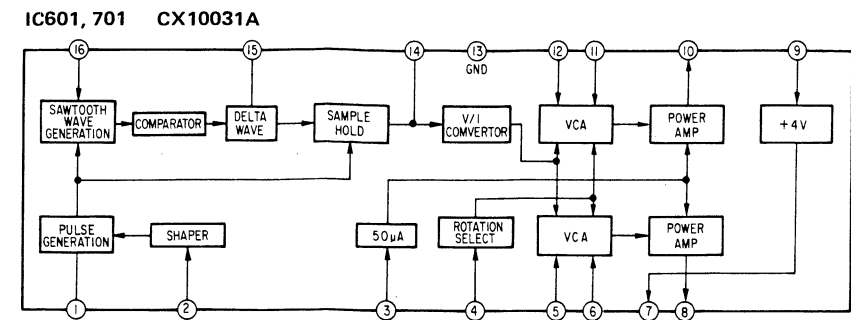
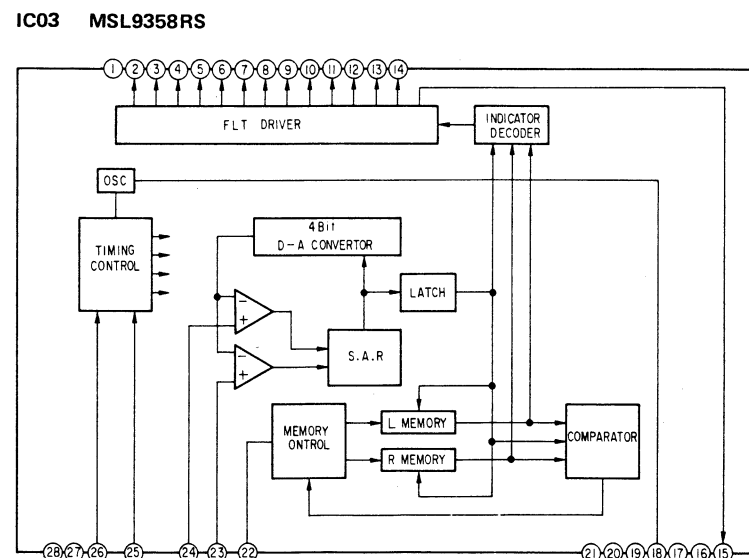
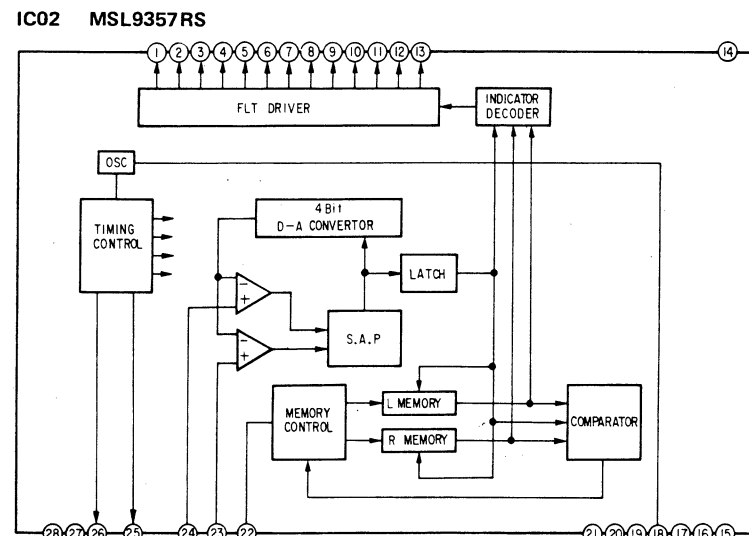
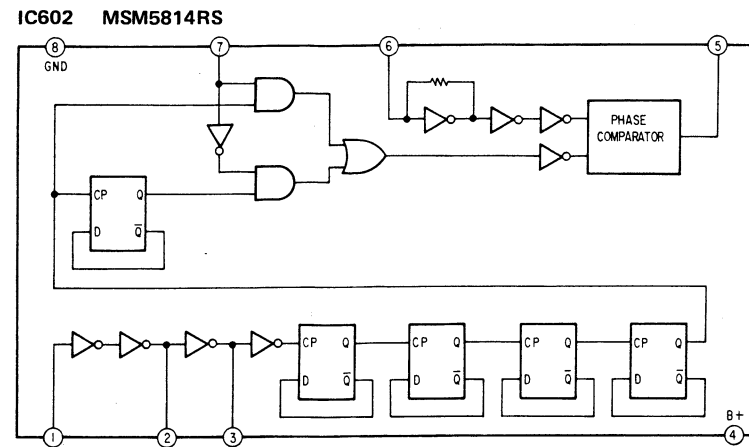
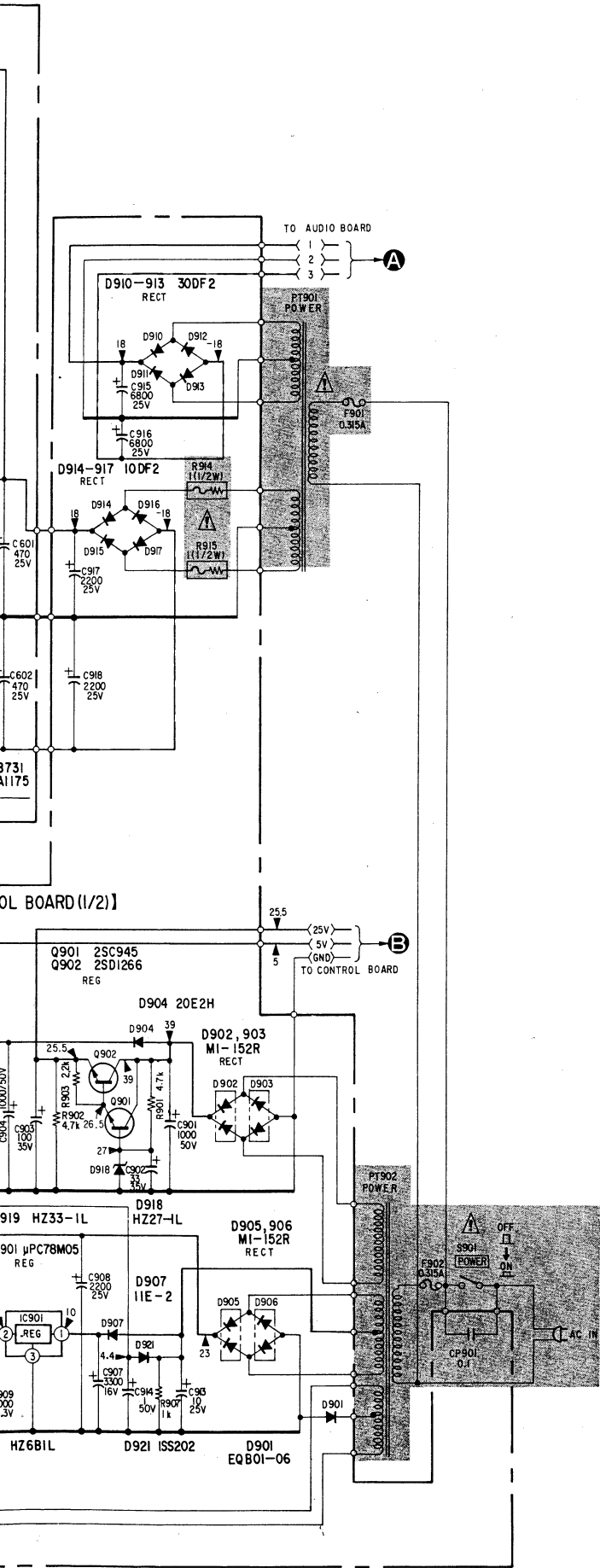
• SEMICONDUCTOR LOCATION

Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D01	C-16	IC01	D-16	Q812	B-7
D02	E-16	IC02	D-18	Q813	C-7
D03	E-16	IC03	D-19	Q814	C-7
D04	E-16	IC601	D-12	Q815	C-7
D05	E-18	IC602	C-12	Q816	C-7
D06	E-19	IC603	E-12	Q817	C-7
D601	B-13	IC604	E-13	Q818	C-7
D602	B-13	IC701	H-12	Q819	D-6
D701	B-11	IC801	C-5	Q820	D-5
D702	B-11	IC802	B-3	Q821	D-5
D703	G-13	IC901	E-4	Q822	D-4
D704	G-13	IC1001	I-22	Q823	D-4
D705	G-13	IC1002	I-20	Q824	D-4
D706	G-13			Q825	D-4
D707	F-13	Q01	D-20	Q826	D-3
D708	G-12	Q02	D-20	Q827	D-3
D801	D-8	Q03	E-20	Q828	C-3
D802	D-8	Q04	E-17	Q829	C-4
D803	D-8	Q05	E-18	Q830	C-4
D804	D-8	Q06	E-17	Q831	E-3
D805	D-8	Q07	E-18	Q832	D-7
D806	B-7	Q601	A-12	Q833	D-7
D807	C-7	Q602	C-12	Q834	D-3
D808	C-3	Q603	A-12	Q835	E-3
D809	D-5	Q604	C-12	Q901	E-5
D851	G-15	Q605	B-12	Q902	E-5
D852	G-18	Q606	B-12	Q903	E-7
D853	G-18	Q607	F-13	Q904	E-7
D854	G-19	Q701	A-11	Q905	F-6
D855	G-20	Q702	C-11	Q906	E-6
D901	H-6	Q703	B-11	Q907	E-6
D902	I-7	Q704	B-11		
D903	I-6	Q705	G-13		
D904	H-7	Q706	I-13		
D905	H-5	Q707	I-13		
D906	H-5	Q708	I-12		
D907	H-5	Q709	I-12		
D910	H-4	Q710	I-12		
D911	H-4	Q801	D-8		
D912	H-3	Q802	D-8		
D913	H-3	Q803	A-8		
D914	G-4	Q804	B-8		
D915	G-4	Q805	C-8		
D916	G-3	Q806	B-8		
D917	G-3	Q807	B-8		
D918	F-5	Q808	B-7		
D919	F-7	Q809	B-7		
D920	F-6	Q810	B-7		
D921	F-5	Q811	A-7		









- Note:**
- All capacitors are in μF unless otherwise noted. pF : μpF 50WV or less are not indicated except for electrolytics and tantalums.
 - All resistors are in Ω and $\frac{1}{4}\text{W}$ or less unless otherwise specified.
 - Components for right channel have same values as for left channel. Reference numbers are coded from
 - Δ : internal component.
 - --- : fusible resistor.
 - --- : B+ bus.
 - --- : B- bus.
 - \square : adjustment for repair.
 - Readings are taken under no-signal conditions with a VOM (50 $\text{k}\Omega/\text{V}$).
no mark: STOP
(): REC
 - \bullet : REC \blacktriangleright : PLAY \blacktriangleleft : REW
 II : PAUSE \blacktriangleright : FF \blacksquare : STOP
 - \circ : REC MUTE
 - Waveforms are taken to ground in no-signal mode by using oscilloscope.
 - Switch

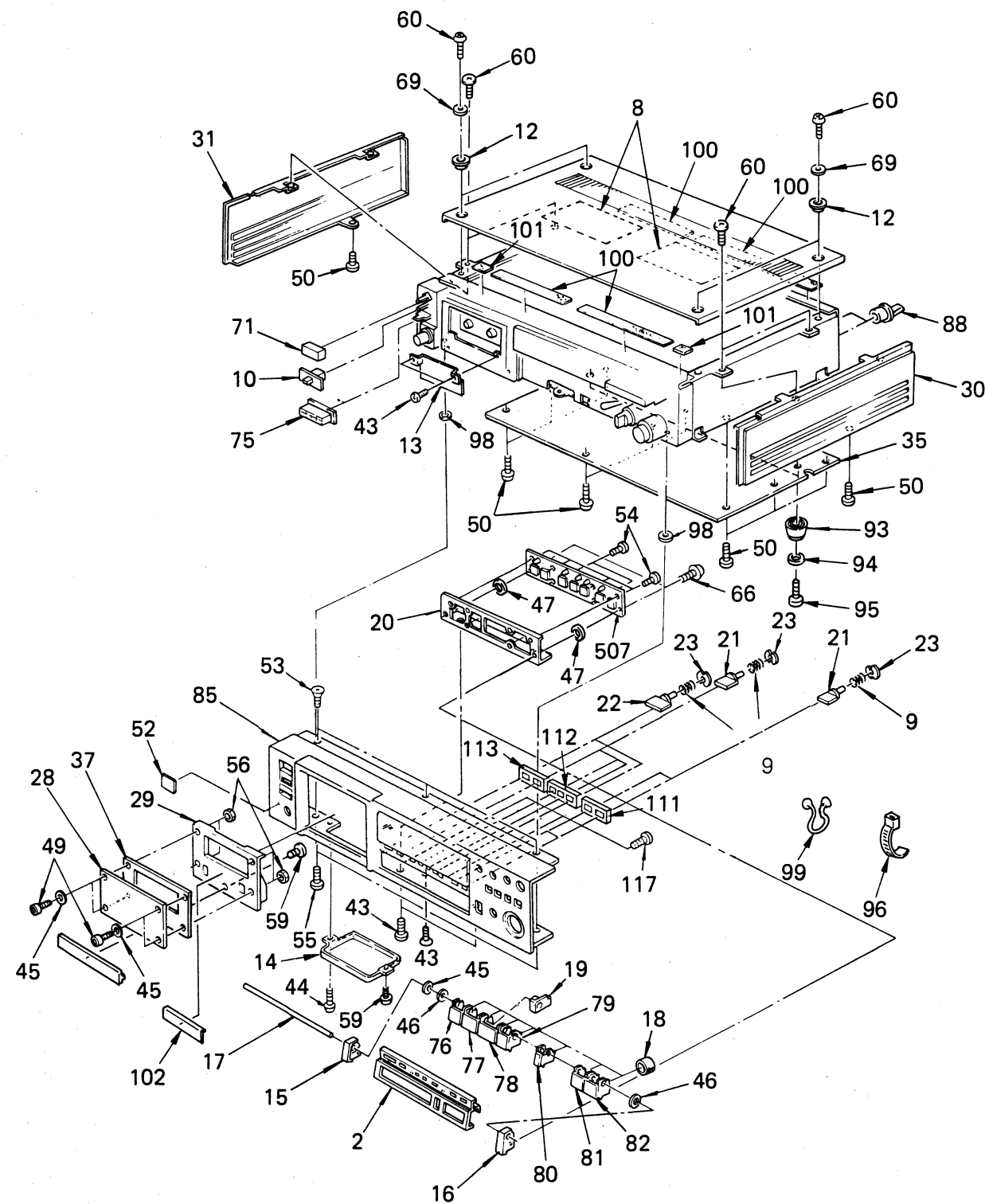
Ref. No.	Switch	Position
S301-1	TYPE I (NORM)	ON
S301-2	TYPE II (CrO_2)	OFF
S301-3	TYPE IV (METAL)	OFF
S301-4	MPX FILTER	OFF
S302	MODE	OFF
S303	MONITOR	TAPE
S601	SERVO/GAIN	SERVO
S801	TIMER	OFF
S851	REW	OFF
S852	STOP	OFF
S853	FWD	OFF
S854	FF	OFF
S855	REC	OFF
S856	PAUSE	OFF
S857	REC MUTE	OFF
S901	POWER	ON
SW01	RESET	OFF
SW02	MEMORY	OFF
SW03	DOLBY B	OFF
SW04	DOLBY C	OFF
SW05	OFF (STRAIGHT)	OFF
SW06	AUTO	OFF
SW07	MANUAL	OFF

Note: The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

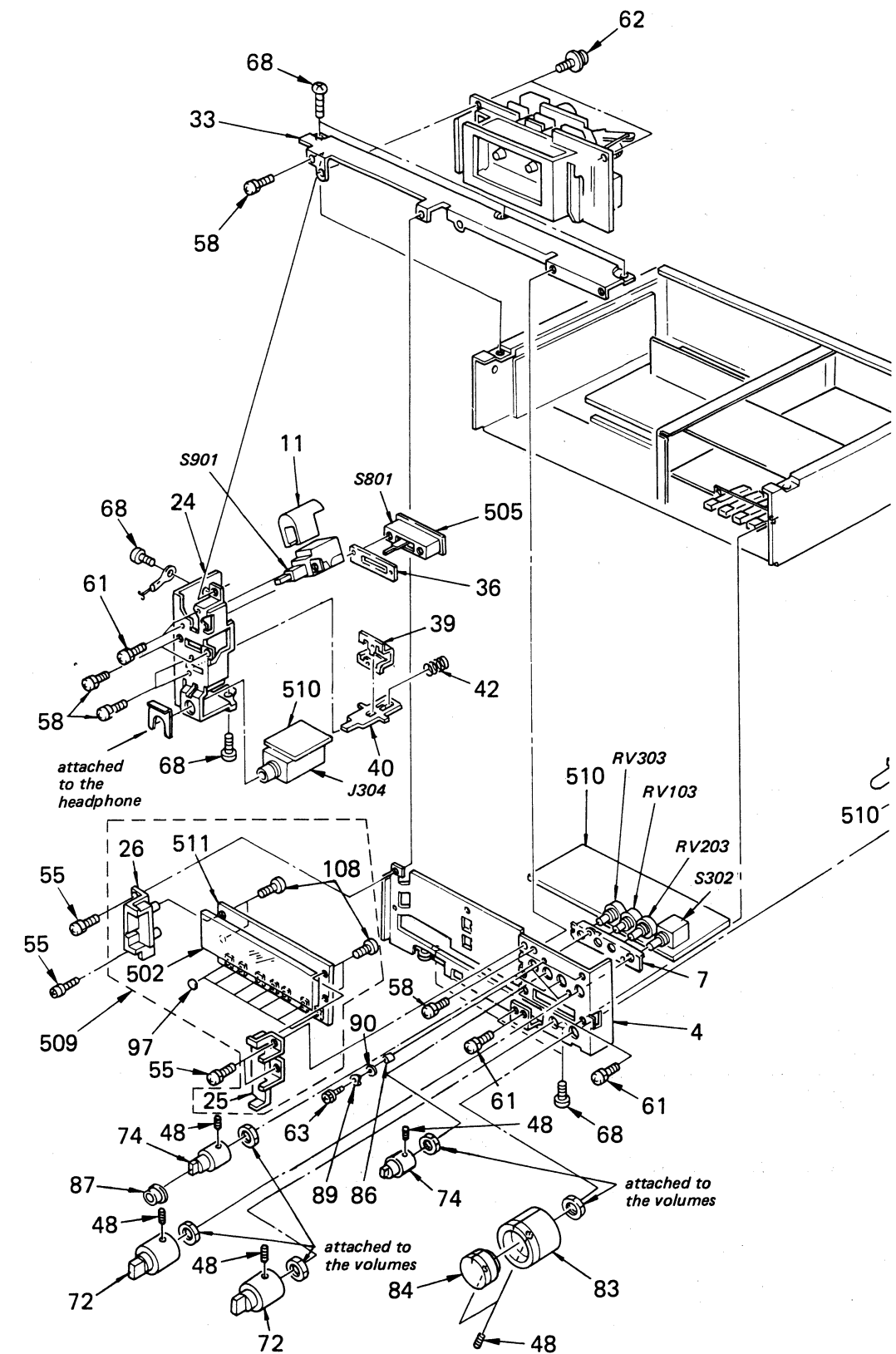
SECTION 5

EXPLODED VIEWS AND PARTS LIST

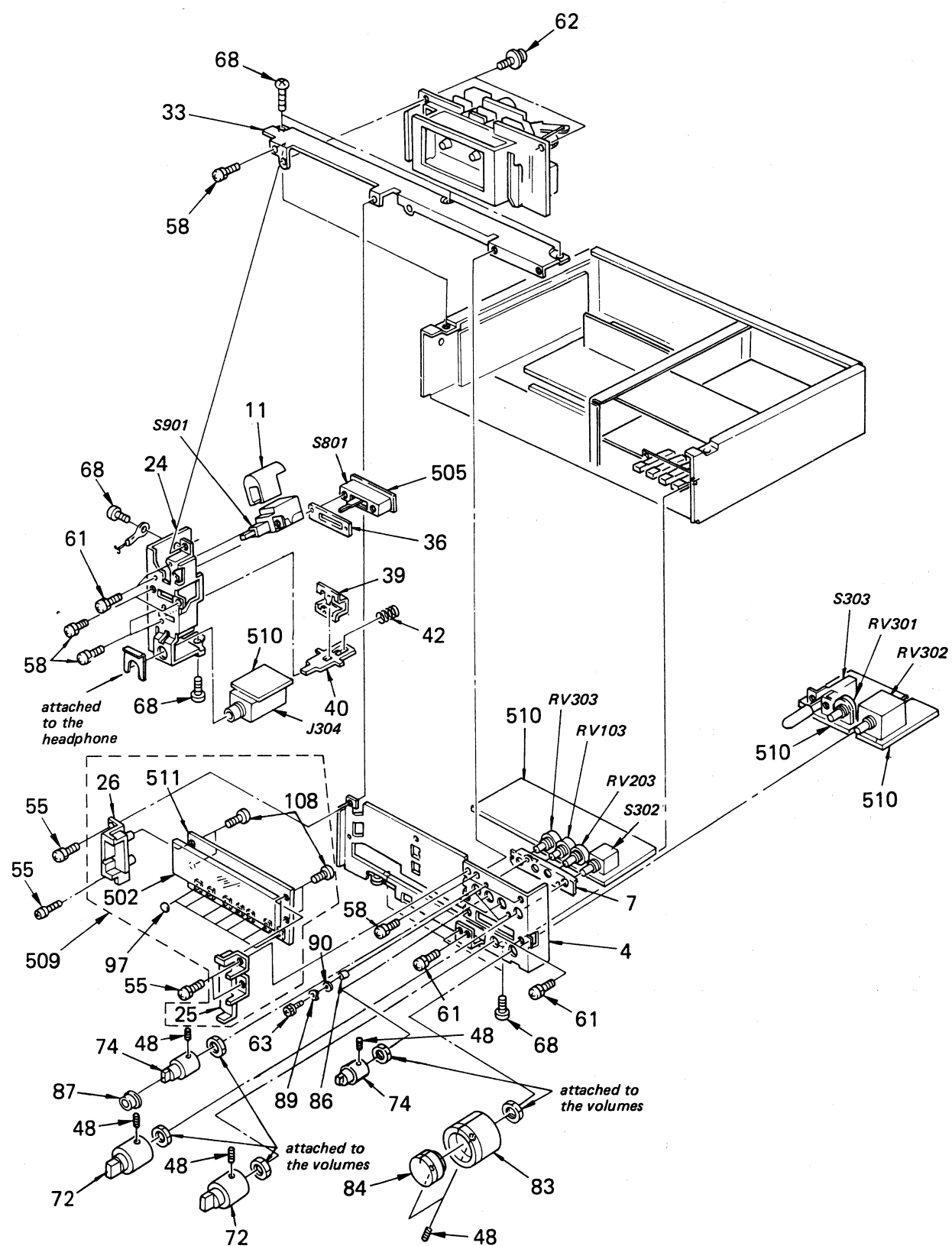
(1)



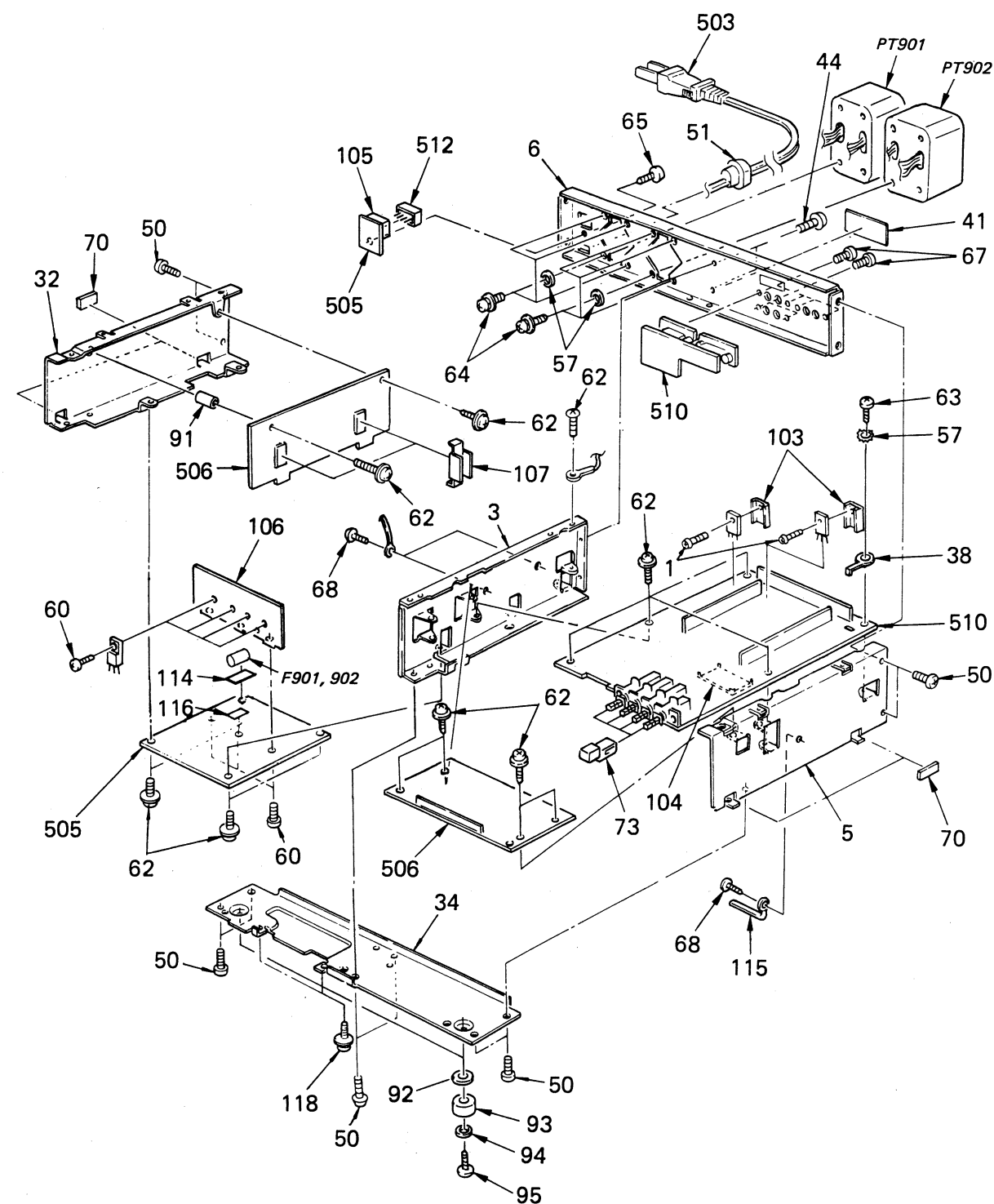
(2)



(2)



(3)



(4)

4C:

406 3

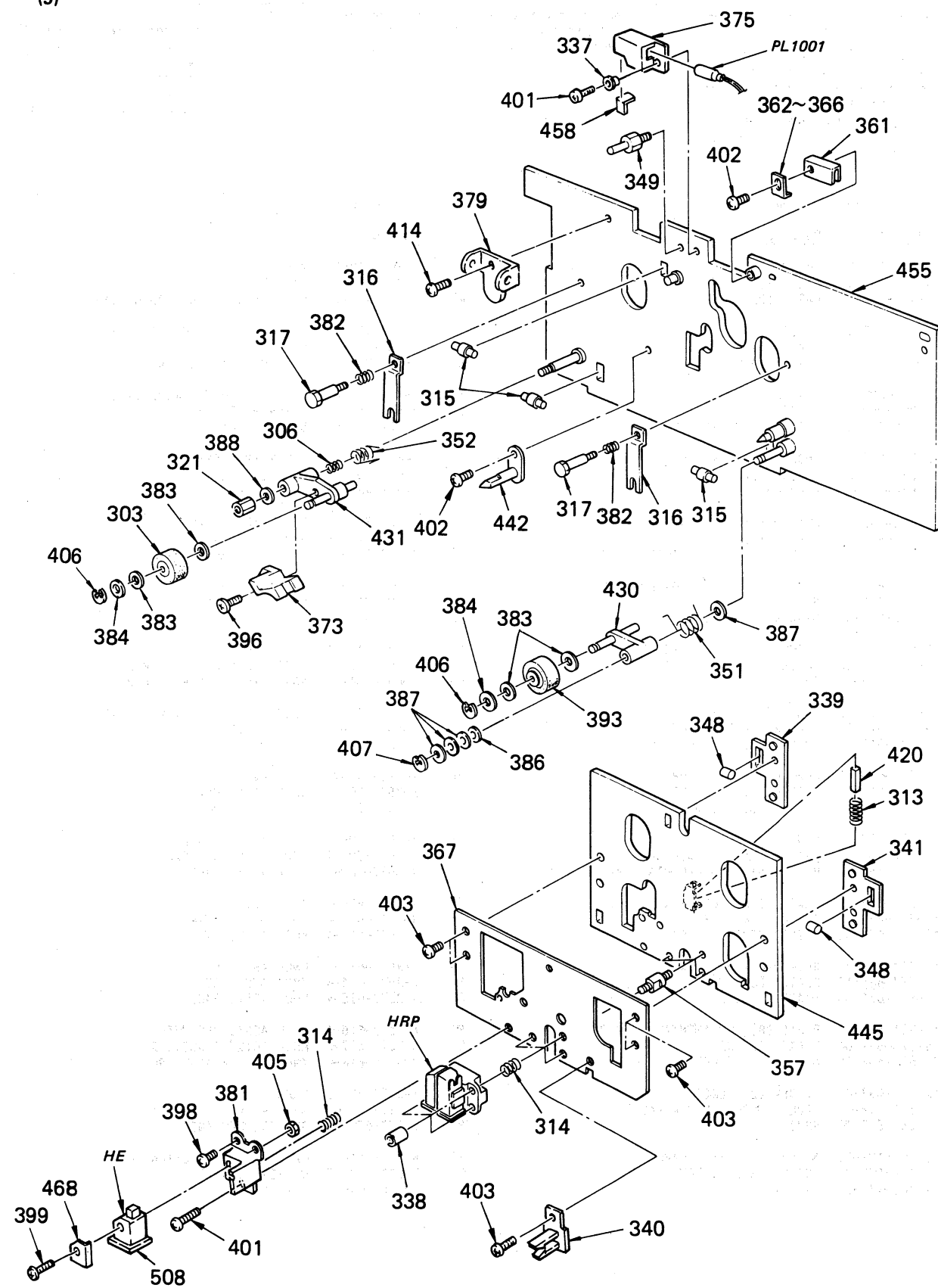
This is a detailed exploded view diagram of a mechanical assembly. The diagram shows various components and their assembly sequence, indicated by dashed lines. Key parts and labels include:

- Top Right:** Two rectangular components labeled PT901 and PT902, connected by a cable labeled 503. Other nearby parts are 44, 65, 51, 41, and 67.
- Center:** A large rectangular frame or housing (part 6) with various internal components like 512, 105, 505, 64, 57, 62, 107, and 103.
- Left Side:** A long horizontal component (part 32) with a bracket (part 70) and a screw (part 50). Below it is a plate (part 91) and a larger plate (part 506).
- Bottom Left:** A sub-assembly including a plate (part 106) with screws (part 60), a component labeled F901, 902, and a plate (part 114) with a screw (part 116). Below these are parts 505, 62, and 60.
- Bottom Center:** A component labeled 3, which is part of a larger assembly including parts 62, 68, 506, 34, 50, 118, 92, 93, 94, and 95.
- Bottom Right:** A component labeled 5, with associated parts 73, 104, 510, 50, 70, 68, 115, and 38.

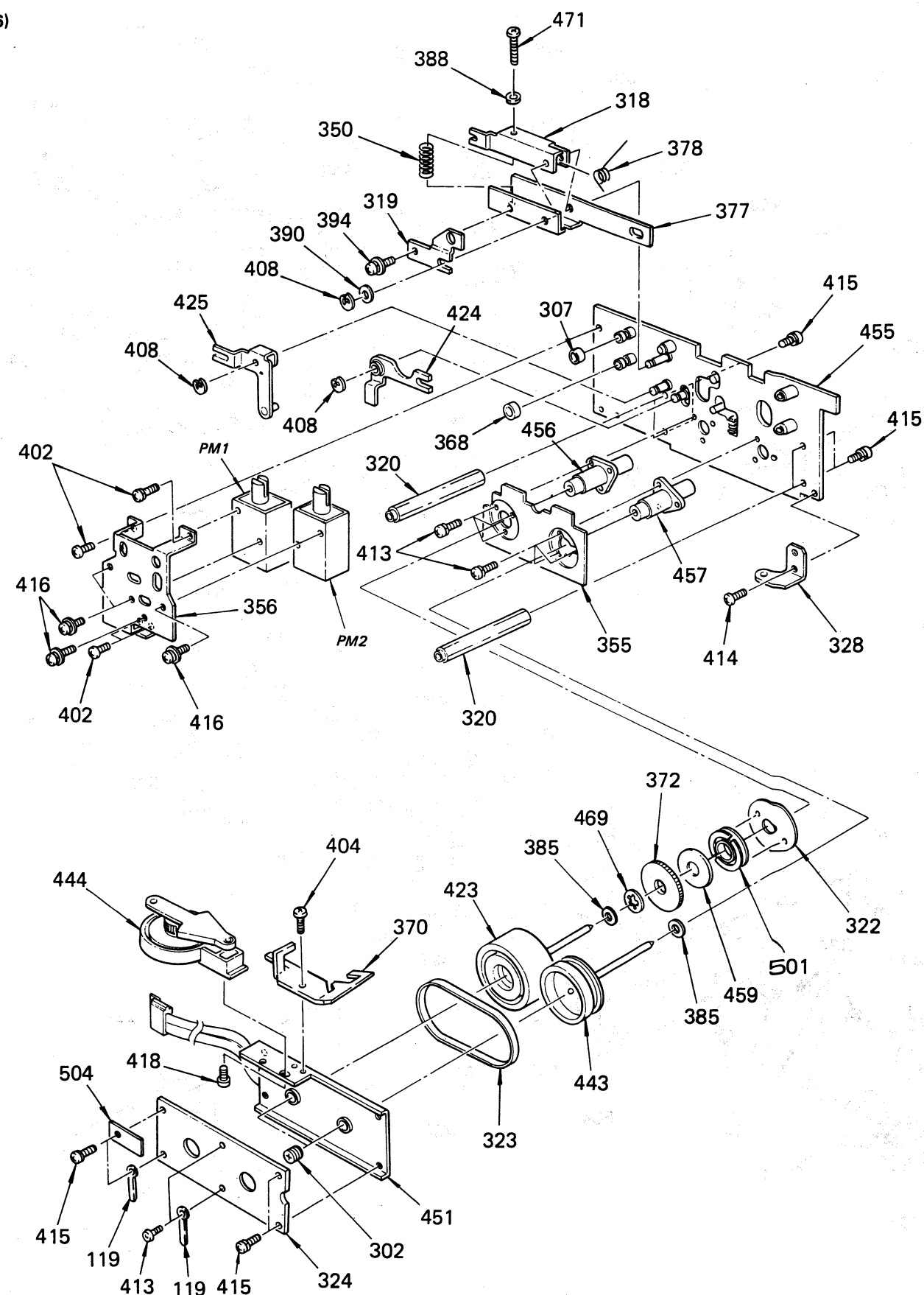
The diagram uses a variety of fasteners, including screws (e.g., 50, 60, 62, 64, 65, 68, 70, 92, 93, 94, 95, 105, 107, 118), pins (e.g., 32, 34, 38, 41, 51, 57, 63, 67, 73, 91), and washers (e.g., 505, 510). The assembly is shown in a disassembled state to illustrate the relationship between the parts.

[illegible]

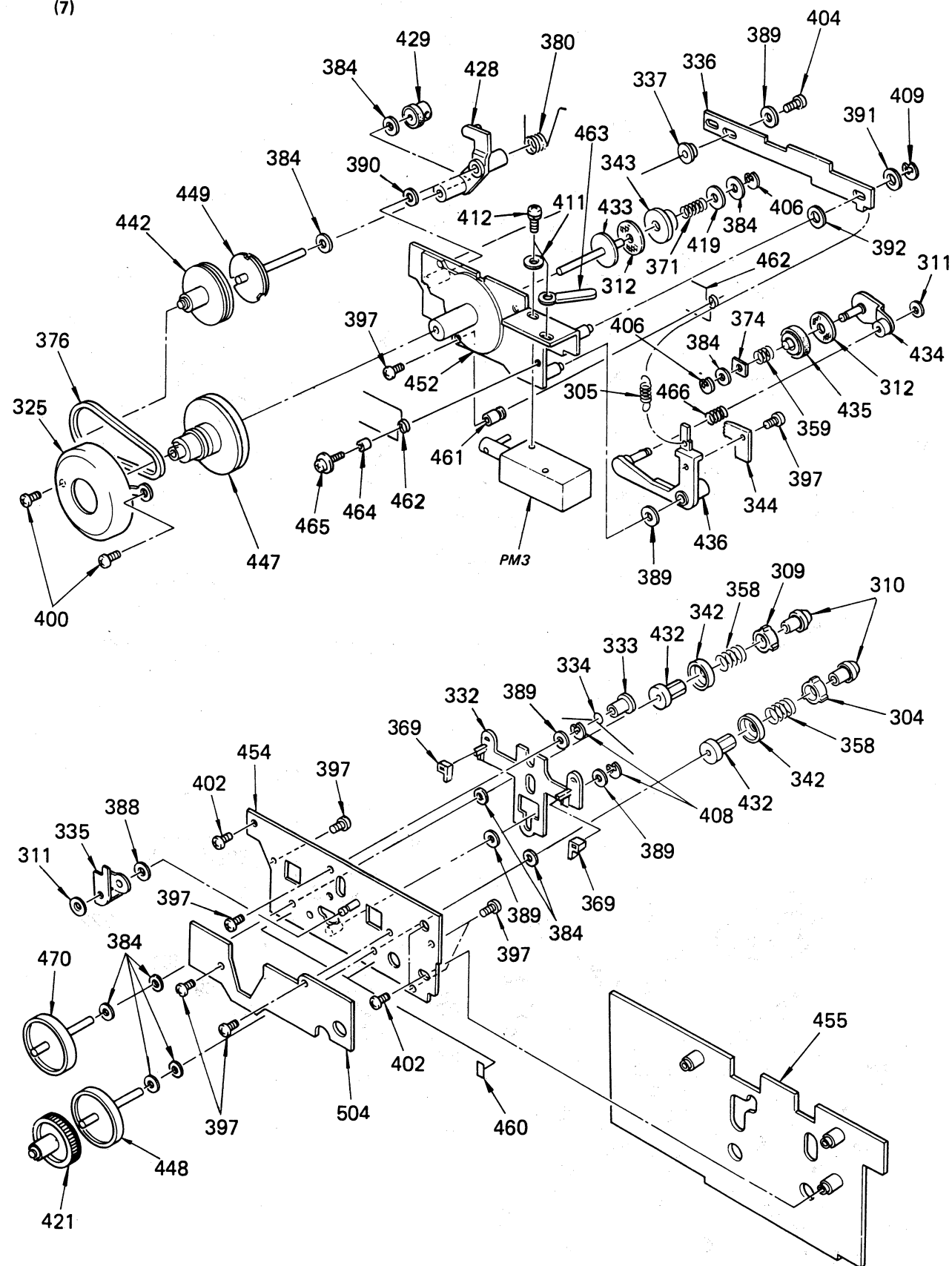
(5)



(6)



(7)



NOTE:

The mechanical parts with no reference number in the exploded views are not supplied.

Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The construction parts of an assembled part are indicated with a collation number in the remark column.

The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

GENERAL SECTION

No.	Part No.	Description
1	2-259-121-00	SCREW, TR
2	3-311-602-11	SASH (B), CONTROL BUTTON
3	*3-311-635-01	PARTITION, INNER
4	*3-311-605-11	CHASSIS (A), AMPLIFIER
5	3-311-633-01	PLATE, SIDE, RIGHT
6	3-311-632-01	PLATE, JACK
7	*3-311-608-00	BRACKET, CONTROL
8	*4-908-960-01	SHEET, PS
9	3-489-043-00	SPRING, COMPRESSION
10	3-575-515-41	KNOB, SLIDE SWITCH
11	3-575-524-00	COVER, POWER SWITCH
12	3-576-298-11	ESCUTCHEON
13	*3-576-930-00	PLATE, SHIELD, HEAD
14	3-577-602-00	COVER, MECH DECK
15	3-577-604-11	PLATE (L), SIDE, CONTROL BLOCK
16	3-577-605-11	PLATE (R), SIDE, CONTROL BLOCK
17	3-577-606-11	SHAFT
18	3-577-607-00	SPACER, CONTROL BUTTON
19	3-577-615-00	GUIDE, SHAFT, CONTROL BUTTON
20	*3-577-624-00	BRACKET, CONTROL BLOCK
21	3-577-638-11	PUSH BUTTON (A)
22	3-577-640-11	PUSH BUTTON (B)
23	3-577-644-00	SPACER, PUSH BUTTON
24	*3-577-647-00	CHASSIS (B), AMPLIFIER
25	*3-577-648-00	BRACKET (R), FL TUBE
26	*3-577-649-00	BRACKET (L), FL TUBE
27	3-577-655-11	SASH, CASSETTE WINDOW
28	3-311-627-01	WINDOW, CASSETTE
29	3-577-658-11	FRAME, CASSETTE WINDOW
30	3-577-662-11	PLATE, SIDE, ORNAMENTAL, RIGHT
31	3-577-663-11	PLATE, SIDE, ORNAMENTAL, LEFT
32	*3-311-634-01	PLATE, SIDE, LEFT
33	*3-577-666-00	REINFORCEMENT, UPPER
34	*3-577-667-21	REINFORCEMENT, LOWER
35	*3-577-669-11	PLATE, BOTTOM
36	3-577-674-00	SPACER, SWITCH
37	3-311-629-01	PLATE (B), ORNAMENTAL, WINDOW
38	4-870-539-00	PLATE, GROUND
39	*3-577-692-00	GUIDE (B), EJECT
40	*3-577-693-00	SLIDER (B), EJECT
41	*3-311-639-01	LABEL, MODEL NUMBER (AE)
42	3-583-507-00	SPRING
43	3-701-428-21	SCREW, +B 2.6X4, PAWL
44	3-701-429-21	SCREW, +B 3X5, PAWL
45	3-701-438-11	WASHER, 2.5

GENERAL SECTION

No.	Part No.	Description
46	3-701-438-21	WASHER
47	3-701-439-01	WASHER
48	3-701-505-00	SET SCREW, DOUBLE POINT 3X3
49	7-683-413-05	BOLT, HEXAGON SOCKET 2.6X8
50	3-703-108-21	SCREW +BV 3X6, S TIGHT
51	3-703-244-00	BUSHING (2104), CORD
52	3-703-710-41	STICKER, SONY SYMBOL (12)
53	7-621-559-30	SCREW +K 2.6X5
54	7-621-770-44	SCREW +B 2X5
55	7-621-773-95	SCREW +B 2.6X6
56	7-622-207-05	N 2.6, TYPE 2
57	7-623-422-07	LW 3, TYPE B
58	7-628-254-15	SCREW +PS 2.6X6
59	7-682-545-09	SCREW +B 3X4
60	7-682-547-09	SCREW +B 3X6
61	7-682-647-01	SCREW +PS 3X6
62	7-682-947-01	SCREW +PSW 3X6
63	7-682-948-01	SCREW +PSW 3X8
64	7-682-948-09	SCREW +PSW 3X8
65	7-685-133-19	SCREW +BTP 2.6X6 TYPE2 N-S
66	7-685-534-21	SCREW +BTP 2.6X8 TYPE2 SLIT
67	7-685-545-29	SCREW +BTP 3X6 TYPE2 SLIT
68	7-685-871-01	SCREW +BVTT 3X6 (S)
69	7-688-003-12	W 3, MIDDLE
70	9-911-841-XX	CUSHION
71	X-3575-502-6	KNOB ASSY, POWER
72	X-3577-603-5	KNOB ASSY, MODE
73	X-3577-606-2	KNOB ASSY, SQUARE
74	X-3577-607-4	KNOB ASSY, REC CAL
75	X-3577-608-2	KNOB ASSY, EJECT
76	X-3577-610-4	KNOB ASSY, REW
77	X-3577-611-4	KNOB ASSY, STOP
78	X-3577-612-4	KNOB ASSY, FWD
79	X-3577-613-4	KNOB ASSY, FF
80	X-3577-614-4	KNOB ASSY, REC
81	X-3577-615-4	KNOB ASSY, PAUSE
82	X-3577-616-4	KNOB ASSY, REC MUTE
83	X-3577-617-0	KNOB (RIGHT) ASSY, REC
84	X-3577-618-0	KNOB (LEFT) ASSY, REC
85	X-3577-622-1	PANEL ASSY
86	3-311-622-00	SPACER, VT
87	3-577-676-00	SPACER, REC KNOB
88	4-854-741-00	CAP, DUST PROTECTION, P.J
89	7-623-710-17	WASHER 4, WAVE
90	7-688-004-01	W 4, SMALL

GENERAL SECTION

No.	Part No.	Description
91	*3-311-625-01	SHAFT, FITTING, PC BOARD
92	*3-311-630-01	SPACER
93	4-901-947-01	LEG
94	4-836-939-00	WASHER, 3.1
95	7-685-755-04	SCREW +BVTT 3X14 (S)
96	*3-701-748-00	CLAMP
97	3-312-975-31	SPACER
98	3-311-623-11	SPACER
99	*2-056-666-00	PURSE LOCK (8 DIA.)
100	3-831-441-XX	SPACER
101	9-911-837-XX	CUSHION (B), FILTER
102	3-311-631-01	PLATE (C), ORNAMENTAL, WINDOW
103	*3-309-144-01	HEAT SINK
104	*3-311-636-01	PLATE, SHIELD
105	4-882-034-00	SPACER, TERMINAL, 2 GANG
106	*3-311-628-01	HEAT SINK
107	*3-310-859-00	HEAT SINK, IC
108	7-685-133-14	SCREW +P 2.6X6 TYPE2 SLIT
111	3-577-637-00	GUIDE (A), BUTTON
112	3-577-639-00	GUIDE (B), BUTTON
113	3-311-601-00	GUIDE (C), BUTTON
114	9-911-863-XX	INSULATOR
115	*3-701-822-00	HOLDER, WIRE
116	*3-701-948-09	LABEL, FUSE
117	7-621-775-20	SCREW +B 2.6X5
118	7-682-947-09	SCREW +PSW 3X6
119	*3-703-150-11	CLAMP

MECHANISM SECTION

No.	Part No.	Description
301	3-140-235-XX	SPRING, TENSION
302	3-489-073-21	SCREW, THRUST
303	3-491-020-00	PINCH ROLLER
304	3-531-760-00	CLAW, REEL SPINDLE
305	3-562-823-00	SPRING, TENSION
306	3-537-213-00	SPRING, COMPRESSION
307	*4-911-035-01	TUBE, LED
308	3-541-231-00	SPRING, TENSION
309	3-558-339-00	CLAW (R), REEL TABLE
310	3-576-983-01	CAP, REEL
311	3-558-708-21	WASHER, STOPPER
312	3-564-027-01	FELT, LIMITER
313	3-564-035-00	SPRING, COMPRESSION
314	3-564-121-00	SPRING, COMPRESSION
315	3-576-801-00	ROLLER, BASE, HEAD
316	*3-576-802-00	RETAINER, ROLLER
317	3-576-803-00	SHAFT, RETAINER, ROLLER
318	*3-576-805-00	LEVER (B), HEAD UP
319	*3-576-806-00	DISK, ARM, TAKE-UP
320	*3-576-807-00	SUPPORT (B)
321	3-576-808-00	ADJUSTOR, PINCH ROLLER
322	*3-576-810-00	PLATE, RETURN CIRCUIT
323	3-576-812-00	BELT, CAPSTAN
324	*3-576-815-00	REINFORCEMENT, BASE
325	*3-576-816-00	CASE, SHIELD, RM
326	*3-576-819-00	SHAFT, LEVER, GB
327	*3-576-820-00	ARM, LOCK
328	*3-576-821-00	BRACKET, CHASSIS, MECHANISM
329	*3-576-822-00	HOLDER (A), SE
330	*3-576-823-00	ARM, E
331	3-576-824-00	COLLAR
332	*3-576-827-00	PLATE, BRAKE
333	*3-576-828-00	SHAFT, SPRING, BRAKE
334	3-576-981-01	SPRING
335	*3-576-830-00	ARM, BRAKE
336	*3-576-831-00	LEVER, SELECT, MODE
337	*3-576-832-00	GUIDE, SELECTOR, MODE
338	3-576-834-00	NUT, LOCK
339	*3-576-836-00	RETAINER (L), ROLLER
340	3-576-837-00	CLAMP, LEAD
341	*3-576-838-00	RETAINER (R), ROLLER
342	3-576-840-00	RING, TABLE, REEL
343	3-576-841-00	PULLEY, LIMITER
344	*3-576-842-00	STOPPER, B.T
345	3-576-843-00	GUIDE (LEFT), HOLDER

MECHANISM SECTION

No.	Part No.	Description
346	3-576-844-00	GUIDE (RIGHT), HOLDER
347	3-576-845-00	ROLLER
348	3-576-909-00	ROLLER (C)
349	3-576-911-00	PIN (A), POSITIONING, HALF
350	3-576-912-00	SPRING, COMPRESSION
351	3-576-913-00	SPRING (T)
352	3-576-914-00	SPRING (S)
353	3-576-915-00	SPRING
354	3-576-916-00	SPRING
355	*3-576-917-00	PLATE, SHIELD
356	*3-576-918-00	BRACKET (B), CHASSIS, MECH
357	3-576-920-00	SHAFT, SUPPORT, HEAD
358	3-576-921-00	SPRING, COMPRESSION
359	3-576-922-00	SPRING, COMPRESSION
360	3-576-924-00	SPRING
361	*3-576-948-00	STOPPER, CHASSIS, HEAD
362	3-576-950-01	SHIM, STOPPER
363	3-576-950-11	SHIM, STOPPER
364	3-576-950-21	SHIM, STOPPER
365	3-576-950-31	SHIM, STOPPER
366	3-576-950-41	SHIM, STOPPER
367	*3-576-951-00	SHIELD, CHASSIS, HEAD
368	*3-576-954-00	RETAINER, SOLENOID
369	3-576-958-01	SHOE, BRAKE
370	*3-576-959-00	RETAINER, TU PULLEY
371	3-576-960-00	SPRING, COMPRESSION
372	*3-576-961-00	PLATE, FG
373	3-576-962-00	GUIDE, TAPE
374	3-576-963-00	WASHER, STOPPER
375	3-576-966-00	HOLDER (A), LAMP
376	3-576-967-00	BELT, TAKE-UP
377	*3-576-969-00	LEVER (A), HEAD UP
378	3-576-953-00	SPRING
379	*3-576-971-00	HOLDER, GB
380	3-576-980-01	SPRING
381	*3-576-977-00	BRACKET, E. HEAD
382	3-634-196-00	SPRING
383	3-701-437-01	WASHER
384	3-701-437-11	WASHER
385	3-701-438-11	WASHER, 2.5
386	3-701-439-01	WASHER
387	3-701-439-11	WASHER
388	3-701-439-21	WASHER
389	3-701-441-11	WASHER
390	3-701-441-21	WASHER

MECHANISM SECTION

No.	Part No.	Description
391	3-701-443-11	WASHER
392	3-701-443-21	WASHER, 5
393	*3-701-455-00	PINCH ROLLER
394	7-621-759-35	+PSW, 2.6X5
395	7-621-770-96	SCREW +B 2X8
396	7-621-772-10	SCREW +B 2X4
397	7-621-772-15	SCREW +B 2X4
398	7-621-772-40	SCREW +B 2X8
399	7-621-772-60	SCREW +B 2X12
400	7-621-773-93	SCREW +B 2.6X3
401	7-621-773-95	SCREW +B 2.6X6
402	7-621-775-10	SCREW +B 2.6X4
403	7-621-775-20	SCREW +B 2.6X5
404	7-621-775-25	SCREW +B 2.6X6
405	7-622-205-05	NUT M2 TYPE2
406	7-624-102-04	STOP RING 1.5, TYPE -E
407	7-624-105-04	STOP RING 2.3, TYPE -E
408	7-624-106-04	STOP RING 3.0, TYPE -E
409	7-624-108-04	STOP RING 4.0, TYPE -E
410	7-624-118-01	RING, RETAINING E-2.5
411	7-688-002-11	W 2.6, MIDDLE
412	7-628-253-95	SCREW +PS 2.6X4
413	7-628-254-15	SCREW +PS 2.6X6
414	7-682-546-09	SCREW +B 3X5
415	7-682-647-01	SCREW +PS 3X6
416	7-682-946-01	SCREW +PSW 3X5
417	7-687-202-21	TOTSU PTPWH 2X4, TYPE 2, SLIT
418	7-687-246-21	SCREW, TOTSU PTPWH 3X8, TYPE2
419	7-688-001-11	W 2, MIDDLE
420	9-911-815-02	CUSHION
421	A-2131-003-B	DRUM COMPLETE ASSY, BT
422	A-2138-004-A	HOLDER COMPLETE ASSY, MAGNET
423	X-3310-811-0	FLYWHEEL (T) ASSY
424	*X-3576-801-0	LEVER ASSY, PRESS
425	*X-3576-802-0	LEVER ASSY, CHANGE
426	*X-3576-805-0	PLATE (L) ASSY, FULCRUM
427	*X-3576-806-0	PLATE (R) ASSY, FULCRUM
428	X-3576-812-0	ARM ASSY, TAKE-UP
429	X-3576-813-0	PULLEY ASSY, TAKE-UP
430	X-3576-815-0	PINCH LEVER (T) ASSY
431	X-3576-816-0	PINCH LEVER (S) ASSY
432	X-3576-817-0	TABLE (B) ASSY, REEL
433	X-3576-819-0	PULLEY (2) ASSY, MOTOR, REEL
434	X-3576-821-0	ARM (2) ASSY, FR
435	X-3576-822-0	IDLER ASSY, FR

SECTION 6
ELECTRICAL PARTS LIST

MECHANISM SECTION

No.	Part No.	Description
436	*X-3576-823-0	ARM (1) ASSY, FR
437	X-3576-824-0	HOLDER ASSY, CASSETTE
438	*X-3576-825-0	LEVER ASSY (R), SWING
439	X-3576-826-0	ARM ASSY (R), CONNECT
440	*X-3576-827-0	LEVER ASSY (L), SWING
441	X-3576-828-0	ARM ASSY (L), CONNECT
442	X-3576-831-0	GUIDE ASSY, CASSETTE
443	X-3576-856-1	FLYWHEEL (S) ASSY
444	X-3576-833-0	SE ASSY
445	X-3576-834-0	CHASSIS ASSY, HEAD
446	X-3576-839-1	LEVER ASSY, GB
447	X-3576-840-1	PULLEY ASSY, MOTOR
448	X-3576-859-1	REEL ASSY, SUPPLY
449	X-3576-843-1	HP HOLDER ASSY
450	X-3576-845-2	BACK PLATE ASSY
451	X-3576-858-1	CHASSIS ASSY, MOTOR
452	X-3576-849-3	CHASSIS ASSY, SUB
453	X-3576-850-0	SPRING ASSY
454	*X-3576-852-0	COVER ASSY, SUB CHASSIS
455	*X-3576-857-1	CHASSIS ASSY, MECHANICAL
456	X-3576-854-1	HOLDER (A) ASSY
457	X-3576-855-1	HOLDER (B) ASSY
458	*3-576-978-00	FILM, RH
459	3-310-865-00	WASHER, INSULATING
460	*3-576-988-01	RETAINER, IC, HOLE
461	*3-576-986-01	SHAFT, SPRING HOOK
462	3-576-982-01	SPRING (A)
463	*3-701-822-00	HOLDER, WIRE
464	*3-657-841-61	SPACER (2X1.6)
465	7-621-955-15	SCREW, TOTSU PWH 2X3
466	3-575-414-00	SPRING, COMPRESSION
467	3-576-979-01	SPRING, TORSION
468	3-318-433-01	SPRING
469	4-312-164-00	RING, RETAINING
470	X-3576-860-1	REEL ASSY, TAKE-UP
471	7-621-775-75	+B 2.6X14

NOTE:

Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:

MF: μ F, PF: μ P.

RESISTORS

All resistors are in ohms.

F : nonflammable

COILS

MMH : mH, UH : μ H

SEMICONDUCTORS

In each case, U : μ , for example:

UA...: μ A..., UPA...: μ PA..., UPC...: μ PC,

UPD...: μ PD...

The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

ELECTRICAL PARTS

Ref.No.	Part No.	Description
501	1-459-426-00	COIL
502	1-519-277-00	INDICATOR TUBE, FLUORESCENT
504	*1-617-119-11	PC BOARD, SENSOR
505	*A-2019-193-A	PC BOARD ASSY, SYSTEM CONTROL
506	*A-2020-079-A	PC BOARD ASSY, CONTROL SERVO
507	*1-604-296-00	PC BOARD, CONTROL SW
508	*1-608-268-00	PC BOARD, ERASE HEAD
509	*A-2029-095-A	PC BOARD ASSY, METER
510	*A-2056-295-A	PC BOARD ASSY, AUDIO
511	*1-608-963-00	PC BOARD, METER
512	*1-560-039-00	PIN, CONNECTOR
C01	1-162-291-31	CERAMIC 560PF 10% 50V
C02	1-131-347-00	TANTALUM 1MF 20% 25V
C03	1-162-291-31	CERAMIC 560PF 10% 50V
C04	1-162-291-31	CERAMIC 560PF 10% 50V
C05	1-131-383-00	TANTALUM 10MF 10% 6.3V
C06	1-123-306-00	ELECT 47MF 20% 10V
C07	1-136-158-00	FILM 0.027MF 5% 50V
C08	1-162-291-31	CERAMIC 560PF 10% 50V
C09	1-162-291-31	CERAMIC 560PF 10% 50V
C10	1-123-330-00	ELECT 22MF 20% 25V
C11	1-131-371-00	TANTALUM 10MF 20% 16V
C12	1-162-291-31	CERAMIC 560PF 10% 50V
C13	1-162-291-31	CERAMIC 560PF 10% 50V
C101	1-130-683-00	FILM 0.027MF 2% 630V
C102	1-107-309-00	MICA 100PF 5% 500V
C104	1-107-309-00	MICA 100PF 5% 500V
C105	1-124-336-00	ELECT 10MF 20% 100V
C106	1-130-893-00	FILM 0.027MF 3% 100V
C107	1-130-285-00	FILM 0.0033MF 5% 100V
C108	1-107-309-00	MICA 100PF 5% 500V
C109	1-130-273-00	FILM 0.001MF 5% 100V
C110	1-136-230-00	FILM 0.0022MF 3% 100V
C111	1-136-230-00	FILM 0.0022MF 3% 100V
C112	1-130-287-00	FILM 0.0039MF 5% 100V
C113	1-136-173-00	FILM 0.47MF 5% 50V
C114	1-136-167-00	FILM 0.15MF 5% 50V
C115	1-124-182-00	ELECT 1MF 20% 50V
C116	1-136-155-00	FILM 0.015MF 5% 50V
C117	1-136-169-00	FILM 0.22MF 5% 50V
C118	1-136-163-00	FILM 0.068MF 5% 50V
C119	1-124-182-00	ELECT 1MF 20% 50V
C120	1-136-162-00	FILM 0.056MF 5% 50V
C121	1-130-291-00	FILM 0.0056MF 5% 100V

ELECTRICAL PARTS

Ref.No.	Part No.	Description
C122	1-136-153-00	FILM 0.01MF 5% 50V
C123	1-124-336-00	ELECT 10MF 20% 100V
C124	1-124-270-11	ELECT 0.47MF 20% 50V
C125	1-124-332-00	ELECT 2.2MF 20% 100V
C126	1-124-332-00	ELECT 2.2MF 20% 100V
C127	1-107-317-00	MICA 33PF 5% 500V
C128	1-107-317-00	MICA 33PF 5% 500V
C129	1-136-230-00	FILM 0.0022MF 3% 100V
C130	1-136-230-00	FILM 0.0022MF 3% 100V
C131	1-130-287-00	FILM 0.0039MF 5% 100V
C132	1-136-173-00	FILM 0.47MF 5% 50V
C133	1-136-167-00	FILM 0.15MF 5% 50V
C134	1-124-182-00	ELECT 1MF 20% 50V
C135	1-136-155-00	FILM 0.015MF 5% 50V
C136	1-136-169-00	FILM 0.22MF 5% 50V
C137	1-136-163-00	FILM 0.068MF 5% 50V
C138	1-124-182-00	ELECT 1MF 20% 50V
C139	1-136-162-00	FILM 0.056MF 5% 50V
C140	1-130-291-00	FILM 0.0056MF 5% 100V
C141	1-136-153-00	FILM 0.01MF 5% 50V
C142	1-123-371-00	ELECT 22MF 20% 63V
C143	1-123-371-00	ELECT 22MF 20% 63V
C144	1-123-333-00	ELECT 100MF 20% 25V
C145	1-107-317-00	MICA 33PF 5% 500V
C146	1-107-309-00	MICA 100PF 5% 500V
C147	1-130-892-00	FILM 0.015MF 3% 100V
C148	1-136-155-00	FILM 0.015MF 5% 50V
C149	1-130-973-00	FILM 0.022MF 3% 100V
C150	1-136-157-00	FILM 0.022MF 5% 50V
C151	1-130-972-51	FILM 0.02MF 3% 100V
C152	1-130-285-00	FILM 0.0033MF 5% 100V
C153	1-136-169-00	FILM 0.22MF 5% 50V
C154	1-107-309-00	MICA 100PF 5% 500V
C155	1-107-309-00	MICA 100PF 5% 500V
C156	1-123-371-00	ELECT 22MF 20% 63V
C157	1-130-277-00	FILM 0.0015MF 5% 100V
C158	1-107-303-00	MICA 130PF 5% 100V
C159	1-107-165-00	MICA 56PF 5% 500V
C161	1-124-185-00	ELECT 4.7MF 20% 50V
C162	1-124-185-00	ELECT 4.7MF 20% 50V
C163	1-136-173-00	FILM 0.47MF 5% 50V
C201	1-130-683-00	FILM 0.027MF 2% 630V
C202	1-107-309-00	MICA 100PF 5% 500V
C204	1-107-309-00	MICA 100PF 5% 500V
C205	1-124-336-00	ELECT 10MF 20% 100V

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
C206	1-130-893-00	FILM	0.027MF	3%	100V
C207	1-130-285-00	FILM	0.0033MF	5%	100V
C208	1-107-309-00	MICA	100PF	5%	500V
C209	1-130-273-00	FILM	0.001MF	5%	100V
C210	1-136-230-00	FILM	0.0022MF	3%	100V
C211	1-136-230-00	FILM	0.0022MF	3%	100V
C212	1-130-287-00	FILM	0.0039MF	5%	100V
C213	1-136-173-00	FILM	0.47MF	5%	50V
C214	1-136-167-00	FILM	0.15MF	5%	50V
C215	1-124-182-00	ELECT	1MF	20%	50V
C216	1-136-155-00	FILM	0.015MF	5%	50V
C217	1-136-169-00	FILM	0.22MF	5%	50V
C218	1-136-163-00	FILM	0.068MF	5%	50V
C219	1-124-182-00	ELECT	1MF	20%	50V
C220	1-136-162-00	FILM	0.056MF	5%	50V
C221	1-130-291-00	FILM	0.0056MF	5%	100V
C222	1-136-153-00	FILM	0.01MF	5%	50V
C223	1-124-336-00	ELECT	10MF	20%	100V
C224	1-124-270-11	ELECT	0.47MF	20%	50V
C225	1-124-332-00	ELECT	2.2MF	20%	100V
C226	1-124-332-00	ELECT	2.2MF	20%	100V
C227	1-107-317-00	MICA	33PF	5%	500V
C228	1-107-317-00	MICA	33PF	5%	500V
C229	1-136-230-00	FILM	0.0022MF	3%	100V
C230	1-136-230-00	FILM	0.0022MF	3%	100V
C231	1-130-287-00	FILM	0.0039MF	5%	100V
C232	1-136-173-00	FILM	0.47MF	5%	50V
C233	1-136-167-00	FILM	0.15MF	5%	50V
C234	1-124-182-00	ELECT	1MF	20%	50V
C235	1-136-155-00	FILM	0.015MF	5%	50V
C236	1-136-169-00	FILM	0.22MF	5%	50V
C237	1-136-163-00	FILM	0.068MF	5%	50V
C238	1-124-182-00	ELECT	1MF	20%	50V
C239	1-136-162-00	FILM	0.056MF	5%	50V
C240	1-130-291-00	FILM	0.0056MF	5%	100V
C241	1-136-153-00	FILM	0.01MF	5%	50V
C242	1-123-371-00	ELECT	22MF	20%	63V
C243	1-123-371-00	ELECT	22MF	20%	63V
C244	1-123-333-00	ELECT	100MF	20%	25V
C245	1-107-317-00	MICA	33PF	5%	500V
C246	1-107-309-00	MICA	100PF	5%	500V
C247	1-130-892-00	FILM	0.015MF	3%	100V
C248	1-136-155-00	FILM	0.015MF	5%	50V
C249	1-130-973-00	FILM	0.022MF	3%	100V
C250	1-136-157-00	FILM	0.022MF	5%	50V
C251	1-130-972-51	FILM	0.02MF	3%	100V
C252	1-130-285-00	FILM	0.0033MF	5%	100V
C253	1-136-169-00	FILM	0.22MF	5%	50V
C254	1-107-309-00	MICA	100PF	5%	500V
C255	1-107-309-00	MICA	100PF	5%	500V
C256	1-123-371-00	ELECT	22MF	20%	63V
C257	1-130-277-00	FILM	0.0015MF	5%	100V
C258	1-107-303-00	MICA	130PF	5%	100V
C259	1-107-165-00	MICA	56PF	5%	500V
C261	1-124-185-00	ELECT	4.7MF	20%	50V
C262	1-124-185-00	ELECT	4.7MF	20%	50V
C263	1-136-173-00	FILM	0.47MF	5%	50V

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
C301	1-123-390-00	ELECT	330MF	20%	63V
C302	1-123-333-00	ELECT	100MF	20%	25V
C303	1-107-317-00	MICA	33PF	5%	500V
C304	1-123-390-00	ELECT	330MF	20%	63V
C305	1-131-450-00	TANTALUM	1MF	20%	50V
C306	1-123-390-00	ELECT	330MF	20%	63V
C307	1-123-333-00	ELECT	100MF	20%	25V
C308	1-107-317-00	MICA	33PF	5%	500V
C309	1-123-390-00	ELECT	330MF	20%	63V
C310	1-131-450-00	TANTALUM	1MF	20%	50V
C311	1-123-357-00	ELECT	22MF	20%	50V
C312	1-123-357-00	ELECT	22MF	20%	50V
C313	1-123-382-00	ELECT	3.3MF	20%	50V
C314	1-162-282-31	CERAMIC	100PF	10%	50V
C315	1-162-282-31	CERAMIC	100PF	10%	50V
C316	1-123-330-00	ELECT	22MF	20%	25V
C317	1-123-330-00	ELECT	22MF	20%	25V
C318	1-123-330-00	ELECT	22MF	20%	25V
C319	1-123-330-00	ELECT	22MF	20%	25V
C320	1-123-380-00	ELECT	1MF	20%	50V
C321	1-131-450-00	TANTALUM	1MF	20%	50V
C322	1-131-450-00	TANTALUM	1MF	20%	50V
C323	1-162-304-31	CERAMIC	0.0047MF	30%	16V
C324	1-162-304-31	CERAMIC	0.0047MF	30%	16V
C325	1-131-450-00	TANTALUM	1MF	20%	50V
C326	1-131-450-00	TANTALUM	1MF	20%	50V
C327	1-123-380-00	ELECT	1MF	20%	50V
C328	1-123-380-00	ELECT	1MF	20%	50V
C329	1-123-322-00	ELECT	330MF	20%	16V
C330	1-123-322-00	ELECT	330MF	20%	16V
C331	1-131-450-00	TANTALUM	1MF	20%	50V
C332	1-131-450-00	TANTALUM	1MF	20%	50V
C333	1-123-356-00	ELECT	10MF	20%	25V
C334	1-123-380-00	ELECT	1MF	20%	50V
C335	1-123-356-00	ELECT	10MF	20%	25V
C336	1-131-450-00	TANTALUM	1MF	20%	50V
C337	1-131-450-00	TANTALUM	1MF	20%	50V
C340	1-162-294-31	CERAMIC	0.001MF	10%	50V
C341	1-162-294-31	CERAMIC	0.001MF	10%	50V
C342	1-162-294-31	CERAMIC	0.001MF	10%	50V
C343	1-162-294-31	CERAMIC	0.001MF	10%	50V
C344	1-162-294-31	CERAMIC	0.001MF	10%	50V
C345	1-123-382-00	ELECT	3.3MF	20%	50V
C346	1-123-382-00	ELECT	3.3MF	20%	50V
C347	1-123-356-00	ELECT	10MF	20%	50V
C348	1-162-294-31	CERAMIC	0.001MF	10%	50V
C349	1-162-294-31	CERAMIC	0.001MF	10%	50V
C350	1-136-157-00	FILM	0.022MF	5%	50V
C351	1-136-157-00	FILM	0.022MF	5%	50V
C352	1-110-198-00	MYLAR	0.0018MF	5%	50V
C353	1-110-198-00	MYLAR	0.0018MF	5%	50V
C354	1-123-330-00	ELECT	22MF	20%	25V
C355	1-123-330-00	ELECT	22MF	20%	25V
C356	1-136-168-00	FILM	0.18MF	5%	50V
C357	1-162-282-31	CERAMIC	100PF	10%	50V
C601	1-123-336-00	ELECT	470MF	20%	25V
C602	1-123-336-00	ELECT	470MF	20%	25V

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
C603	1-123-332-00	ELECT	47MF	20%	16V
C604	1-123-332-00	ELECT	47MF	20%	16V
C605	1-162-207-31	CERAMIC	22PF	5%	50V
C606	1-162-207-31	CERAMIC	22PF	5%	50V
C607	1-123-324-00	ELECT	1000MF	20%	16V
C608	1-123-324-00	ELECT	1000MF	20%	16V
C609	1-161-494-00	CERAMIC	0.022MF	30%	25V
C610	1-161-494-00	CERAMIC	0.022MF	30%	25V
C611	1-136-164-00	FILM	0.082MF	5%	50V
C612	1-136-161-00	FILM	0.047MF	5%	50V
C613	1-123-356-00	ELECT	10MF	20%	16V
C614	1-136-164-00	FILM	0.082MF	5%	50V
C615	1-130-140-00	FILM	0.039MF	5%	100V
C616	1-136-168-00	FILM	0.18MF	5%	50V
C617	1-123-356-00	ELECT	10MF	20%	16V
C618	1-161-328-00	CERAMIC	0.0047MF	30%	50V
C619	1-102-851-00	CERAMIC	15PF	5%	50V
C620	1-102-851-00	CERAMIC	15PF	5%	50V
C621	1-136-153-00	FILM	0.01MF	5%	50V
C622	1-136-157-00	FILM	0.022MF	5%	50V
C623	1-136-157-00	FILM	0.022MF	5%	50V
C624	1-136-153-00	FILM	0.01MF	5%	50V
C701	1-123-332-00	ELECT	47MF	20%	16V
C702	1-123-332-00	ELECT	47MF	20%	16V
C703	1-123-323-00	ELECT	470MF	20%	16V
C704	1-123-323-00	ELECT	470MF	20%	16V
C705	1-161-494-00	CERAMIC	0.022MF	30%	25V
C706	1-161-494-00	CERAMIC	0.022MF	30%	25V
C707	1-123-356-00	ELECT	10MF	20%	16V
C708	1-161-329-00	CERAMIC	0.0068MF	30%	25V
C709	1-136-164-00	FILM	0.082MF	5%	50V
C710	1-136-160-00	FILM	0.039MF	5%	50V
C711	1-136-164-00	FILM	0.082MF	5%	50V
C712	1-136-165-00	FILM	0.1MF	5%	50V
C713	1-123-381-00	ELECT	2.2MF	20%	50V
C801	1-162-306-31	CERAMIC	0.01MF	20%	16V
C802	1-162-306-31	CERAMIC	0.01MF	20%	16V
C803	1-162-306-31	CERAMIC	0.01MF	20%	16V
C804	1-162-306-31	CERAMIC	0.01MF	20%	16V
C805	1-162-306-31	CERAMIC	0.01MF	20%	16V
C806	1-162-306-31	CERAMIC	0.01MF	20%	16V
C807	1-162-306-31	CERAMIC	0.01MF	20%	16V
C809	1-162-211-31	CERAMIC	33PF	5%	50V
C810	1-162-211-31	CERAMIC	33PF	5%	50V
C811	1-123-307-00	ELECT	100MF	20%	6.3V
C812	1-123-307-00	ELECT	100MF	20%	6.3V
C813	1-162-284-31	CERAMIC	150PF	10%	50V
C814	1-162-284-31	CERAMIC	150PF	10%	50V
C815	1-162-294-31	CERAMIC	0.001MF	10%	50V
C901	1-123-364-00	ELECT	1000MF	20%	50V
C902	1-123-343-00	ELECT	33MF	20%	35V
C903	1-123-345-00	ELECT	100MF	20%	35V
C904	1-123-364-00	ELECT	1000MF	20%	50V
C905	1-123-343-00	ELECT	33MF	20%	35V
C906	1-123-345-00	ELECT	100MF	20%	35V
C907	1-123-326-00	ELECT	3300MF	20%	16V
C908	1-123-338-00	ELECT	2200MF	20%	25V

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
C909	1-123-299-00	ELECT	1000MF	20%	6.3V
C910	1-123-332-00	ELECT	47MF	20%	25V
C911	1-123-332-00	ELECT	47MF	20%	25V
C912	1-123-323-00	ELECT	470MF	20%	16V
C913	1-123-356-00	ELECT	10MF	20%	25V
C914	1-123-380-00	ELECT	1MF	20%	50V
C915	1-124-346-00	ELECT	6800MF	20%	25V
C916	1-124-346-00	ELECT	6800MF	20%	25V
C917	1-123-338-00	ELECT	2200MF	20%	25V
C918	1-123-338-00	ELECT	2200MF	20%	25V
C919	1-162-211-31	CERAMIC	33PF	5%	50V
CN304	*1-560-062-00	PIN, CONNECTOR 4P			
CN308	*1-560-064-00	PIN, CONNECTOR 6P			
CN315	*1-560-338-00	PIN, CONNECTOR 7P			
CN316	*1-560-063-00	PIN, CONNECTOR 5P			
CN325	*1-560-061-00	PIN, CONNECTOR 3P			
CN326	*1-560-062-00	PIN, CONNECTOR 4P			
CN327	*1-508-881-00	BASE POST 8P			
CN329	*1-508-878-00	BASE POST 3P			
CN337	*1-564-506-11	PLUG, CONNECTOR 3P			
CN338	*1-564-510-11	PLUG, CONNECTOR 7P			
CN339	*1-564-511-11	PLUG, CONNECTOR 8P			
CN340	*1-564-513-11	PLUG, CONNECTOR 10P			
CN341	*1-564-506-11	PLUG, CONNECTOR 3P			
CN342	*1-564-509-11	PLUG, CONNECTOR 6P			
CN343	*1-564-511-11	PLUG, CONNECTOR 8P			
CN344	*1-564-509-11	PLUG, CONNECTOR 6P			
CN345	*1-564-507-21	PLUG, CONNECTOR 4P			
CN346	*1-564-507-11	PLUG, CONNECTOR 4P			
CN601	*1-560-066-00	PIN, CONNECTOR 10P			
CN602	*1-560-061-00	PIN, CONNECTOR 3P			
CN701	*1-560-339-00	PIN, CONNECTOR 9P			
CN801	*1-564-511-11	PLUG, CONNECTOR 8P			
CN802	*1-560-338-00	PIN, CONNECTOR 7P			
CN803	*1-564-509-11	PLUG, CONNECTOR 6P			
CN804	*1-560-062-00	PIN, CONNECTOR 4P			
CN805	*1-560-062-00	PIN, CONNECTOR 4P			
CN806	*1-560-061-00	PIN, CONNECTOR 3P			
CN807	*1-560-061-00	PIN, CONNECTOR 3P			
CN808	*1-560-061-00	PIN, CONNECTOR 3P			
CN809	*1-560-060-00	PIN, CONNECTOR 2P			
CN810	*1-560-060-00	PIN, CONNECTOR 2P			
CN811	*1-560-060-00	PIN, CONNECTOR 2P			
CN812	*1-560-060-00	PIN, CONNECTOR 2P			
CN813	*1-560-061-00	PIN, CONNECTOR 3P			
CN901	*1-560-061-00	PIN, CONNECTOR 3P			
CN903	*1-560-060-00	PIN, CONNECTOR 2P			
CP901A	1-161-744-00	CERAMIC	0.01 MF	400V	
CT301	1-141-225-00	CAP, TUNING, TRIMMER			
D01	8-719-910-29	DIODE HZ12C3L			
D02	8-719-107-94	DIODE 1S5202-1			
D03	8-719-107-94	DIODE 1S5202-1			
D04	8-719-910-64	DIODE HZ6B1L			
D05	8-719-901-61	DIODE HZ16-1L			
D06	8-719-901-61	DIODE HZ16-1L			
D101	8-719-815-56	DIODE 1S1555			
D102	8-719-815-55	DIODE 1S1555			
D103	8-719-815-55	DIODE 1S1555			

ELECTRICAL PARTS

Ref.No.	Part No.	Description
D104	8-719-815-55	DIODE 1S1555
D105	8-719-815-55	DIODE 1S1555
D106	8-719-815-55	DIODE 1S1555
D107	8-719-815-55	DIODE 1S1555
D108	8-719-107-94	DIODE 1SS202-1
D109	8-719-107-94	DIODE 1SS202-1
D201	8-719-815-55	DIODE 1S1555
D202	8-719-815-55	DIODE 1S1555
D203	8-719-815-55	DIODE 1S1555
D204	8-719-815-55	DIODE 1S1555
D205	8-719-815-55	DIODE 1S1555
D206	8-719-815-55	DIODE 1S1555
D207	8-719-815-55	DIODE 1S1555
D208	8-719-107-94	DIODE 1SS202-1
D209	8-719-107-94	DIODE 1SS202-1
D301	8-719-224-12	DIODE 10YD1.3A
D302	8-719-910-64	DIODE HZ6B1L
D303	8-719-224-12	DIODE 10YD1.3A
D304	8-719-910-64	DIODE HZ6B1L
D305	8-719-107-94	DIODE 1SS202-1
D306	8-719-107-94	DIODE 1SS202-1
D307	8-719-910-64	DIODE HZ11B1L
D308	8-719-910-64	DIODE HZ11B1L
D309	8-719-107-94	DIODE 1SS202-1
D310	8-719-107-94	DIODE 1SS202-1
D311	8-719-107-94	DIODE 1SS202-1
D313	8-719-904-21	DIODE HZ12A1L
D314	8-719-904-21	DIODE HZ12A1L
D315	8-719-107-94	DIODE 1SS202-1
D316	8-719-107-94	DIODE 1SS202-1
D317	8-719-107-94	DIODE 1SS202-1
D318	8-719-107-94	DIODE 1SS202-1
D319	8-719-107-94	DIODE 1SS202-1
D320	8-719-107-94	DIODE 1SS202-1
D321	8-719-910-64	DIODE HZ12A1L
D322	8-719-107-94	DIODE 1SS202-1
D323	8-719-107-94	DIODE 1SS202-1
D324	8-719-107-94	DIODE 1SS202-1
D325	8-719-107-94	DIODE 1SS202-1
D326	8-719-107-94	DIODE 1SS202-1
D327	8-719-107-94	DIODE 1SS202-1
D328	8-719-910-02	DIODE HZ20-2L
D329	8-719-910-02	DIODE HZ20-2L
D330	8-719-910-02	DIODE HZ20-2L
D331	8-719-910-02	DIODE HZ20-2L
D332	8-719-904-21	DIODE HZ12A1L
D333	8-719-107-94	DIODE 1SS202-1
D334	8-719-107-94	DIODE 1SS202-1
D335	8-719-107-94	DIODE 1SS202-1
D336	8-719-107-94	DIODE 1SS202-1
D337	8-719-107-94	DIODE 1SS202-1
D338	8-719-107-94	DIODE 1SS202-1
D339	8-719-107-94	DIODE 1SS202-1
D340	8-719-107-94	DIODE 1SS202-1
D341	8-719-107-94	DIODE 1SS202-1
D342	8-719-107-94	DIODE 1SS202-1
D343	8-719-910-64	DIODE HZ6B1L

ELECTRICAL PARTS


Ref.No.	Part No.	Description
D344	8-719-107-94	DIODE 1SS202-1
D345	8-719-107-94	DIODE 1SS202-1
D601	8-719-910-64	DIODE HZ6B1L
D602	8-719-910-64	DIODE HZ6B1L
D701	8-719-910-64	DIODE HZ11B1L
D702	8-719-910-64	DIODE HZ11B1L
D703	8-719-107-94	DIODE 1SS202-1
D704	8-719-107-94	DIODE 1SS202-1
D705	8-719-107-94	DIODE 1SS202-1
D706	8-719-107-94	DIODE 1SS202-1
D707	8-719-107-94	DIODE 1SS202-1
D708	8-719-107-94	DIODE 1SS202-1
D801	8-719-200-23	DIODE 11E2
D802	8-719-200-23	DIODE 11E2
D803	8-719-200-23	DIODE 11E2
D804	8-719-200-23	DIODE 11E2
D805	8-719-200-23	DIODE 11E2
D806	8-719-107-94	DIODE 1SS202-1
D807	8-719-107-94	DIODE 1SS202-1
D808	8-719-107-94	DIODE 1SS202-1
D809	8-719-107-94	DIODE 1SS202-1
D851	8-719-955-25	DIODE PY5525S
D852	8-719-952-52	DIODE PG5525SX
D853	8-719-955-25	DIODE PY5525S
D854	8-719-952-53	DIODE BR5525S
D855	8-719-952-51	DIODE AA5525S
D901	8-719-931-06	DIODE EQ801-06
D902	8-719-500-34	DIODE S3VC40
D903	8-719-501-34	DIODE S3VC40R
D904	8-719-200-62	DIODE 20E2H
D905	8-719-500-34	DIODE S3VC40
D906	8-719-501-34	DIODE S3VC40R
D907	8-719-200-23	DIODE 11E2
D910	8-719-230-02	DIODE 300F2
D911	8-719-230-02	DIODE 300F2
D912	8-719-230-02	DIODE 300F2
D913	8-719-230-02	DIODE 300F2
D914	8-719-210-12	DIODE 100F2
D915	8-719-210-12	DIODE 100F2
D916	8-719-210-12	DIODE 100F2
D917	8-719-210-12	DIODE 100F2
D918	8-719-992-71	DIODE HZ27-1L
D919	8-719-913-31	DIODE HZ33-1L
D920	8-719-910-64	DIODE HZ6B1L
D921	8-719-107-94	DIODE 1SS202-1
H1001	8-719-800-17	DIODE THS102A
H1002	8-719-800-17	DIODE THS102A
H1003	8-719-800-17	DIODE THS102A
H1004	8-719-800-17	DIODE THS102A
HE	1-543-358-11	HEAD, MAGNETIC (ERASE)
HRP	8-825-500-32	HEAD, REC/PB (RPA230-3602A)
IC01	8-759-150-47	IC UPD550C-047
IC02	8-759-993-57	IC MSL9357RS
IC03	8-759-993-58	IC MSL9358RS


ELECTRICAL PARTS

Ref.No.	Part No.	Description
IC101	8-759-602-89	IC M5240PR
IC102	8-759-603-03	IC M5240P
IC103	8-759-145-58	IC UPC4558C
IC201	8-759-602-89	IC M5240PR
IC202	8-759-603-03	IC M5240P
IC203	8-759-145-58	IC UPC4558C
IC301	8-752-018-80	IC CX20188
IC302	8-759-145-58	IC UPC4558C
IC303	8-759-900-72	IC NE5532P
IC304	8-759-602-83	IC M5238P
IC305	8-752-018-80	IC CX20188
IC306	8-759-745-60	IC NJM4560D
IC307	8-759-745-60	IC NJM4560D
IC308	8-759-602-83	IC M5238P
IC309	8-759-745-60	IC NJM4560D
IC601	8-759-102-17	IC CX10031A
IC602	8-759-958-14	IC MSM58141RS
IC603	8-759-145-58	IC UPC4558C
IC604	8-759-145-58	IC UPC4558C
IC701	8-759-102-17	IC CX10031A
IC801	8-759-922-90	IC MB8841H-1443K
IC802	8-759-602-47	IC M50761-417P
IC901	8-759-170-05	IC UPC78M05H
IC1001	8-759-400-90	IC DN6838A
IC1002	8-759-400-90	IC DN6838A
J301	1-507-726-00	JACK, PIN 2P
J302	1-507-726-00	JACK, PIN 2P
J303	1-507-726-00	JACK, PIN 2P
J304	1-507-796-21	JACK
L01	1-408-096-00	MICRO INDUCTOR 470UH
L101	1-407-240-00	MICRO INDUCTOR 22MMH
L102	1-408-253-00	MICRO INDUCTOR 4.7MMH
L103	1-408-250-00	MICRO INDUCTOR 2.7MMH
L104	1-408-249-00	MICRO INDUCTOR 2.2MMH
L105	1-408-259-00	MICRO INDUCTOR 15MMH
L201	1-407-240-00	MICRO INDUCTOR 22MMH
L202	1-408-253-00	MICRO INDUCTOR 4.7MMH
L203	1-408-250-00	MICRO INDUCTOR 2.7MMH
L204	1-408-249-00	MICRO INDUCTOR 2.2MMH
L205	1-408-259-00	MICRO INDUCTOR 15MMH
L301	1-408-096-00	MICRO INDUCTOR 470UH
L302	1-408-096-00	MICRO INDUCTOR 470UH
L303	1-408-096-00	MICRO INDUCTOR 470UH
LPF101	1-231-388-00	FILTER, LOWPASS
LPF201	1-231-388-00	FILTER, LOWPASS
OSC301	1-464-328-11	OSCILLATION UNIT, BIAS
PL301	1-518-386-00	LAMP, PILOT
PL302	1-518-386-00	LAMP, PILOT
PL1001	1-518-306-00	LAMP, PILOT
PM1	1-454-270-00	SOLENOID, PLUNGER
PM2	1-454-271-00	SOLENOID, PLUNGER
PM3	1-454-345-00	SOLENOID, PLUNGER
Q01	8-729-902-11	TRANSISTOR 2SC2021
Q02	8-729-902-11	TRANSISTOR 2SC2021
Q03	8-729-101-31	TRANSISTOR N13T1

ELECTRICAL PARTS

Ref.No.	Part No.	Description
Q04	8-729-902-11	TRANSISTOR 2SC2021
Q05	8-729-993-72	TRANSISTOR 2SA937
Q06	8-729-902-11	TRANSISTOR 2SC2021
Q07	8-729-993-72	TRANSISTOR 2SA937
Q101	8-729-107-99	TRANSISTOR 2SC3622A
Q102	8-729-811-22	TRANSISTOR 2SD1012-F2
Q103	8-729-178-54	TRANSISTOR 2SC2785
Q104	8-729-900-89	TRANSISTOR DTC144ES
Q201	8-729-128-54	TRANSISTOR 2SC3622A
Q202	8-729-811-22	TRANSISTOR 2SD1012-F2
Q203	8-729-178-54	TRANSISTOR 2SC2785
Q204	8-729-900-89	TRANSISTOR DTC144ES
Q301	8-729-113-82	TRANSISTOR 2SA1138
Q302	8-729-167-62	TRANSISTOR 2SC2676
Q303	8-729-167-62	TRANSISTOR 2SC2676
Q304	8-729-127-53	TRANSISTOR 2SC2275-P
Q305	8-729-167-62	TRANSISTOR 2SC2676
Q306	8-729-113-82	TRANSISTOR 2SA1138
Q307	8-729-113-82	TRANSISTOR 2SA1138
Q308	8-729-118-53	TRANSISTOR 2SA985-P
Q309	8-729-900-89	TRANSISTOR DTC144ES
Q310	8-729-117-54	TRANSISTOR 2SA1175
Q311	8-729-606-33	TRANSISTOR 2SC2603F
Q312	8-729-281-53	TRANSISTOR 2SC1815-GR
Q313	8-729-281-53	TRANSISTOR 2SC1815-GR
Q314	8-729-177-43	TRANSISTOR 2SD774
Q315	8-729-103-43	TRANSISTOR 2SB734
Q316	8-729-900-80	TRANSISTOR DTC114ES
Q317	8-729-811-22	TRANSISTOR 2SD1012-F2
Q318	8-729-900-89	TRANSISTOR DTC144ES
Q319	8-729-900-89	TRANSISTOR DTC144ES
Q320	8-729-900-89	TRANSISTOR DTC144ES
Q321	8-729-900-36	TRANSISTOR DTC124ES
Q322	8-729-606-33	TRANSISTOR 2SC2603F
Q323	8-729-900-89	TRANSISTOR DTC114ES
Q324	8-729-900-89	TRANSISTOR DTC144ES
Q325	8-729-900-89	TRANSISTOR DTC144ES
Q326	8-729-900-89	TRANSISTOR DTC144ES
Q327	8-729-117-54	TRANSISTOR 2SA1175
Q328	8-729-900-89	TRANSISTOR DTC144ES
Q329	8-729-117-54	TRANSISTOR 2SA1175
Q330	8-729-178-54	TRANSISTOR 2SC2785
Q331	8-729-178-54	TRANSISTOR 2SC2785
Q601	8-729-180-93	TRANSISTOR 2SD809
Q602	8-729-173-13	TRANSISTOR 2SB731
Q603	8-729-606-33	TRANSISTOR 2SC2603F
Q604	8-729-117-54	TRANSISTOR 2SA1175
Q605	8-729-606-33	TRANSISTOR 2SC2603F
Q606	8-729-117-54	TRANSISTOR 2SA1175
Q607	8-729-606-33	TRANSISTOR 2SC2603F
Q701	8-729-180-93	TRANSISTOR 2SD809
Q702	8-729-173-13	TRANSISTOR 2SB731
Q703	8-729-606-33	TRANSISTOR 2SC2603F
Q704	8-729-117-54	TRANSISTOR 2SA1175
Q705	8-729-900-80	TRANSISTOR DTC114ES
Q706	8-729-900-61	TRANSISTOR DTA114ES
Q707	8-729-900-80	TRANSISTOR DTC114ES

The components identified by shading and mark  are critical for safety. Replace only with part number specified.

The components identified by shading and mark  are critical for safety. Replace only with part number specified.

ELECTRICAL PARTS

Ref.No.	Part No.	Description
Q708	8-729-102-03	TRANSISTOR 2SD1012
Q709	8-729-900-80	TRANSISTOR DTC114ES
Q710	8-729-900-80	TRANSISTOR DTC114ES
Q801	8-729-802-22	TRANSISTOR 2SB1014
Q802	8-729-802-22	TRANSISTOR 2SB1014
Q803	8-729-900-80	TRANSISTOR DTC114ES
Q804	8-729-900-80	TRANSISTOR DTC114ES
Q805	8-729-802-34	TRANSISTOR 2SD1388
Q806	8-729-802-34	TRANSISTOR 2SD1388
Q807	8-729-802-34	TRANSISTOR 2SD1388
Q808	8-729-900-61	TRANSISTOR DTA114ES
Q809	8-729-900-61	TRANSISTOR DTA114ES
Q810	8-729-900-61	TRANSISTOR DTA114ES
Q811	8-729-900-61	TRANSISTOR DTA114ES
Q812	8-729-900-61	TRANSISTOR DTA114ES
Q813	8-729-900-61	TRANSISTOR DTA114ES
Q814	8-729-900-61	TRANSISTOR DTA114ES
Q815	8-729-900-61	TRANSISTOR DTA114ES
Q816	8-729-900-61	TRANSISTOR DTA114ES
Q817	8-729-900-61	TRANSISTOR DTA114ES
Q818	8-729-900-61	TRANSISTOR DTA114ES
Q819	8-729-900-61	TRANSISTOR DTA114ES
Q820	8-729-900-80	TRANSISTOR DTC114ES
Q821	8-729-900-80	TRANSISTOR DTC114ES
Q822	8-729-900-80	TRANSISTOR DTC114ES
Q823	8-729-900-80	TRANSISTOR DTC114ES
Q824	8-729-900-80	TRANSISTOR DTC114ES
Q825	8-729-900-80	TRANSISTOR DTC114ES
Q826	8-729-900-80	TRANSISTOR DTC114ES
Q827	8-729-900-80	TRANSISTOR DTC114ES
Q828	8-729-900-61	TRANSISTOR DTA114ES
Q829	8-729-900-61	TRANSISTOR DTA114ES
Q830	8-729-900-61	TRANSISTOR DTA114ES
Q831	8-729-900-89	TRANSISTOR DTC144ES
Q832	8-729-802-22	TRANSISTOR 2SB1014
Q833	8-729-900-80	TRANSISTOR DTC114ES
Q834	8-729-900-61	TRANSISTOR DTA114ES
Q835	8-729-900-61	TRANSISTOR DTA114ES
Q901	8-729-606-33	TRANSISTOR 2SC2603F
Q902	8-729-400-81	TRANSISTOR 2SD1266-Q
Q903	8-729-606-33	TRANSISTOR 2SC2603F
Q904	8-729-400-81	TRANSISTOR 2SD1266-Q
Q905	8-729-606-33	TRANSISTOR 2SC2603F
Q906	8-729-606-33	TRANSISTOR 2SC2603F
Q907	8-729-400-81	TRANSISTOR 2SD1266-Q
R01	1-249-433-11	CARBON 22K 5% 1/6W
R02	1-249-433-11	CARBON 22K 5% 1/6W
R03	1-249-437-11	CARBON 47K 5% 1/6W
R04	1-249-433-11	CARBON 22K 5% 1/6W
R05	1-247-881-00	CARBON 120K 5% 1/6W
R06	1-247-845-00	CARBON 3.9K 5% 1/6W
R07	1-247-815-00	CARBON 220 5% 1/6W
R08	1-249-429-11	CARBON 10K 5% 1/6W
R09	1-247-857-00	CARBON 12K 5% 1/6W
R10	1-249-441-11	CARBON 100K 5% 1/6W
R11	1-249-425-11	CARBON 4.7K 5% 1/6W
R12	1-249-429-11	CARBON 10K 5% 1/6W

ELECTRICAL PARTS

Ref.No.	Part No.	Description
R13	1-249-433-11	CARBON 22K 5% 1/6W
R14	1-249-425-11	CARBON 4.7K 5% 1/6W
R15	1-249-429-11	CARBON 10K 5% 1/6W
R16	1-249-433-11	CARBON 22K 5% 1/6W
R17	1-249-441-11	CARBON 100K 5% 1/6W
R18	1-247-875-00	CARBON 68K 5% 1/6W
R19	1-247-109-00	CARBON 120 5% 1/4W
R20	1-247-109-00	CARBON 120 5% 1/4W
R21	1-247-875-00	CARBON 68K 5% 1/6W
R22	1-247-875-00	CARBON 68K 5% 1/6W
R23	1-247-875-00	CARBON 68K 5% 1/6W
R101	1-249-713-00	CARBON 47K 1/2W
R102	1-247-220-00	CARBON 150 1/2W
R103	1-244-922-00	CARBON 110K 1/2W
R104	1-247-255-00	CARBON 4.3K 1/2W
R106	1-247-700-11	CARBON 100 1/4W
R107	1-247-137-00	CARBON 1.8K 1/4W
R108	1-247-138-00	CARBON 2K 1/4W
R109	1-249-469-11	CARBON 100K 5% 1/4W
R110	1-249-417-11	CARBON 1K 5% 1/6W
R111	1-247-717-11	CARBON 2.2K 1/4W
R112	1-249-465-11	CARBON 47K 1/4W
R113	1-247-749-11	CARBON 560 1/2W
R114	1-247-146-00	CARBON 4.3K 1/4W
R115	1-247-142-00	CARBON 3K 1/4W
R116	1-246-545-00	CARBON 1M 1/4W
R117	1-247-710-11	CARBON 560 1/4W
R118	1-247-163-00	CARBON 22K 1/4W
R119	1-247-152-00	CARBON 7.5K 1/4W
R120	1-247-711-11	CARBON 680 1/4W
R121	1-247-154-00	CARBON 9.1K 1/4W
R122	1-247-264-00	CARBON 10K 1/2W
R123	1-249-465-11	CARBON 47K 1/4W
R124	1-247-749-11	CARBON 560 1/2W
R125	1-249-465-11	CARBON 47K 1/4W
R126	1-247-163-00	CARBON 22K 1/4W
R127	1-247-163-00	CARBON 22K 1/4W
R128	1-249-469-11	CARBON 100K 1/4W
R129	1-247-704-11	CARBON 220 1/4W
R130	1-247-749-11	CARBON 560 1/2W
R131	1-247-749-11	CARBON 560 1/2W
R132	1-247-274-00	CARBON 27K 1/2W
R133	1-247-152-00	CARBON 8.2K 1/4W
R134	1-247-151-00	CARBON 6.8K 1/4W
R135	1-247-145-00	CARBON 3.9K 1/4W
R136	1-247-719-11	CARBON 3.3K 1/4W
R137	1-247-151-00	CARBON 6.8K 1/4W
R138	1-249-469-11	CARBON 100K 1/4W
R139	1-249-469-11	CARBON 100K 1/4W
R140	1-247-232-00	CARBON 470 1/2W
R141	1-247-264-00	CARBON 10K 1/2W
R142	1-247-146-00	CARBON 4.3K 1/4W
R143	1-247-142-00	CARBON 3K 1/4W
R144	1-246-545-00	CARBON 1M 1/4W
R145	1-247-710-11	CARBON 560 1/4W
R146	1-247-163-00	CARBON 22K 1/4W
R147	1-247-152-00	CARBON 7.5K 1/4W

ELECTRICAL PARTS

Ref.No.	Part No.	Description
R148	1-247-711-11	CARBON 680 1/4W
R149	1-247-154-00	CARBON 9.1K 1/4W
R150	1-249-465-11	CARBON 47K 1/4W
R151	1-247-710-11	CARBON 560 1/4W
R152	1-247-721-11	CARBON 4.7K 1/4W
R153	1-249-460-11	CARBON 15K 1/4W
R154	1-247-719-11	CARBON 3.3K 1/4W
R155	1-249-417-11	CARBON 1K 5% 1/6W
R156	1-247-266-00	CARBON 12K 1/2W
R157	1-247-250-00	CARBON 2.7K 1/2W
R158	1-247-258-00	CARBON 5.6K 1/2W
R160	1-247-703-11	CARBON 180 1/4W
R161	1-249-459-11	CARBON 12K 1/4W
R162	1-249-530-00	CARBON 120 1/4W
R163	1-247-721-11	CARBON 4.7K 1/4W
R164	1-247-145-00	CARBON 3.9K 1/4W
R165	1-249-530-00	CARBON 120 1/4W
R166	1-247-719-11	CARBON 3.3K 1/4W
R167	1-247-719-11	CARBON 3.3K 1/4W
R168	1-247-254-00	CARBON 3.9K 1/2W
R169	1-247-274-00	CARBON 27K 1/2W
R170	1-249-459-11	CARBON 12K 1/4W
R171	1-247-163-00	CARBON 22K 1/4W
R172	1-247-250-00	CARBON 2.7K 1/2W
R175	1-249-415-11	CARBON 680 5% 1/6W
R176	1-249-433-11	CARBON 22K 5% 1/6W
R177	1-247-839-00	CARBON 2.2K 5% 1/6W
R178	1-247-819-00	CARBON 330 5% 1/6W
R179	1-247-839-00	CARBON 2.2K 5% 1/6W
R180	1-247-853-00	CARBON 8.2K 5% 1/6W
R181	1-249-425-11	CARBON 4.7K 5% 1/6W
R182	1-247-883-00	CARBON 150K 5% 1/6W
R183	1-249-422-11	CARBON 2.7K 5% 1/6W
R184	1-247-823-00	CARBON 470 5% 1/6W
R185	1-247-826-00	CARBON 620 5% 1/6W
R186	1-247-817-00	CARBON 270 5% 1/6W
R187	1-247-823-00	CARBON 470 5% 1/6W
R188	1-249-417-11	CARBON 1K 5% 1/6W
R189	1-247-893-00	CARBON 390K 5% 1/6W
R190	1-247-839-00	CARBON 2.2K 5% 1/6W
R191	1-249-441-11	CARBON 100K 5% 1/6W
R192	1-249-429-11	CARBON 10K 5% 1/6W
R193	1-249-441-11	CARBON 100K 5% 1/6W
R194	1-249-425-11	CARBON 4.7K 5% 1/6W
R195	1-249-425-11	CARBON 4.7K 5% 1/6W
R196	1-247-845-00	CARBON 3.9K 5% 1/6W
R197	1-249-417-11	CARBON 1K 5% 1/6W
R201	1-249-713-00	CARBON 47K 1/2W
R202	1-247-220-00	CARBON 150 1/2W
R203	1-244-922-00	CARBON 110K 1/2W
R204	1-247-255-00	CARBON 4.3K 1/2W
R206	1-247-700-11	CARBON 100 1/4W
R207	1-247-137-00	CARBON 1.8K 1/4W
R208	1-247-138-00	CARBON 2K 1/4W
R209	1-249-469-11	CARBON 100K 1/4W
R210	1-249-417-11	CARBON 1K 5% 1/6W
R211	1-247-717-11	CARBON 2.2K 1/4W

ELECTRICAL PARTS

Ref.No.	Part No.	Description
R212	1-249-465-11	CARBON 47K 1/4W
R213	1-247-749-11	CARBON 560 1/2W
R214	1-247-146-00	CARBON 4.3K 1/4W
R215	1-247-142-00	CARBON 3K 1/4W
R216	1-246-545-00	CARBON 1M 1/4W
R217	1-247-710-11	CARBON 560 1/4W
R218	1-247-163-00	CARBON 22K 1/4W
R219	1-247-152-00	CARBON 7.5K 1/4W
R220	1-247-711-11	CARBON 680 1/4W
R221	1-247-154-00	CARBON 9.1K 1/4W
R222	1-247-264-00	CARBON 10K 1/2W
R223	1-249-465-11	CARBON 47K 1/4W
R224	1-247-749-11	CARBON 560 1/2W
R225	1-249-465-11	CARBON 47K 1/4W
R226	1-247-163-00	CARBON 22K 1/4W
R227	1-247-163-00	CARBON 22K 1/4W
R228	1-249-469-11	CARBON 100K 1/4W
R229	1-247-704-11	CARBON 220 1/4W
R230	1-247-749-11	CARBON 560 1/2W
R231	1-247-749-11	CARBON 560 1/2W
R232	1-247-274-00	CARBON 27K 1/2W
R233	1-247-152-00	CARBON 8.2K 1/4W
R234	1-247-151-00	CARBON 6.8K 1/4W
R235	1-247-145-00	CARBON 3.9K 1/4W
R236	1-247-719-11	CARBON 3.3K 1/4W
R237	1-247-151-00	CARBON 6.8K 1/4W
R238	1-249-469-11	CARBON 100K 1/4W
R239	1-249-469-11	CARBON 100K 1/4W
R240	1-247-232-00	CARBON 470 1/2W
R241	1-247-264-00	CARBON 10K 1/2W
R242	1-247-146-00	CARBON 4.3K 1/4W
R243	1-247-142-00	CARBON 3K 1/4W
R244	1-246-545-00	CARBON 1M 1/4W
R245	1-247-710-11	CARBON 560 1/4W
R246	1-247-163-00	CARBON 22K 1/4W
R247	1-247-152-00	CARBON 7.5K 1/4W
R248	1-247-711-11	CARBON 680 1/4W
R249	1-247-154-00	CARBON 9.1K 1/4W
R250	1-249-465-11	CARBON 47K 1/4W
R251	1-247-710-11	CARBON 560 1/4W
R252	1-247-721-11	CARBON 4.7K 1/4W
R253	1-249-460-11	CARBON 15K 1/4W
R254	1-247-719-11	CARBON 3.3K 1/4W
R255	1-249-417-11	CARBON 1K 5% 1/6W
R256	1-247-266-00	CARBON 12K 1/2W
R257	1-247-250-00	CARBON 2.7K 1/2W
R258	1-247-258-00	CARBON 5.6K 1/2W
R260	1-247-703-11	CARBON 180 1/4W
R261	1-249-459-11	CARBON 12K 1/4W
R262	1-249-530-00	CARBON 120 1/4W
R263	1-247-721-11	CARBON 4.7K 1/4W
R264	1-247-145-00	CARBON 3.9K 1/4W
R265	1-249-530-00	CARBON 120 1/4W
R266	1-247-719-11	CARBON 3.3K 1/4W
R267	1-247-719-11	CARBON 3.3K 1/4W
R268	1-247-254-00	CARBON 3.9K 1/2W
R269	1-247-274-00	CARBON 27K 1/2W

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
R270	1-249-459-11	CARBON	12K		1/4W
R271	1-247-163-00	CARBON	22K		1/4W
R272	1-247-250-00	CARBON	2.7K		1/2W
R275	1-249-415-11	CARBON	680	5%	1/6W
R276	1-249-433-11	CARBON	22K	5%	1/6W
R277	1-247-839-00	CARBON	2.2K	5%	1/6W
R278	1-247-819-00	CARBON	330	5%	1/6W
R279	1-247-839-00	CARBON	2.2K	5%	1/6W
R280	1-247-853-00	CARBON	8.2K	5%	1/6W
R281	1-249-425-11	CARBON	4.7K	5%	1/6W
R282	1-247-883-00	CARBON	150K	5%	1/6W
R283	1-249-422-11	CARBON	2.7K	5%	1/6W
R284	1-247-823-00	CARBON	470	5%	1/6W
R285	1-247-826-00	CARBON	620	5%	1/6W
R286	1-247-817-00	CARBON	270	5%	1/6W
R287	1-247-823-00	CARBON	470	5%	1/6W
R288	1-249-417-11	CARBON	1K	5%	1/6W
R289	1-247-893-00	CARBON	390K	5%	1/6W
R290	1-247-839-00	CARBON	2.2K	5%	1/6W
R291	1-249-441-11	CARBON	100K	5%	1/6W
R292	1-249-429-11	CARBON	10K	5%	1/6W
R293	1-249-441-11	CARBON	100K	5%	1/6W
R294	1-249-425-11	CARBON	4.7K	5%	1/6W
R295	1-249-425-11	CARBON	4.7K	5%	1/6W
R296	1-247-845-00	CARBON	3.9K	5%	1/6W
R297	1-249-417-11	CARBON	1K	5%	1/6W
R301	1-247-704-11	CARBON	220		1/4W
R302	1-249-465-11	CARBON	47K		1/4W
R303	1-247-133-00	CARBON	1.2K		1/4W
R304	1-247-719-11	CARBON	3.3K		1/4W
R305	1-214-858-00	METAL	560	1%	1/2W
R306	1-214-864-00	METAL	1K	1%	1/2W
R307	1-247-704-11	CARBON	220		1/4W
R308	1-249-465-11	CARBON	47K		1/4W
R309	1-247-133-00	CARBON	1.2K		1/4W
R310	1-247-719-11	CARBON	3.3K		1/4W
R311	1-214-858-00	METAL	560	1%	1/2W
R312	1-214-864-00	METAL	1K	1%	1/2W
R313	1-249-432-11	CARBON	18K	5%	1/6W
R314	1-249-437-11	CARBON	47K	5%	1/6W
R315	1-214-751-00	METAL	8.2K	1%	1/4W
R316	1-214-743-00	METAL	3.9K	1%	1/4W
R317	1-214-735-00	METAL	1.8K	1%	1/4W
R318	1-214-747-00	METAL	5.6K	1%	1/4W
R319	1-247-853-00	CARBON	8.2K	5%	1/6W
R320	1-247-849-00	CARBON	5.6K	5%	1/6W
R321	1-247-849-00	CARBON	5.6K	5%	1/6W
R322	1-249-429-11	CARBON	10K	5%	1/6W
R323	1-249-433-11	CARBON	22K	5%	1/6W
R324	1-247-895-00	CARBON	470K	5%	1/6W
R326	1-249-433-11	CARBON	22K	5%	1/6W
R327	1-249-433-11	CARBON	22K	5%	1/6W
R328	1-214-780-00	METAL	130K	1%	1/4W
R329	1-249-437-11	CARBON	47K	5%	1/6W
R330	1-249-437-11	CARBON	47K	5%	1/6W
R331	1-249-437-11	CARBON	47K	5%	1/6W
R332	1-249-437-11	CARBON	47K	5%	1/6W

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
R333	1-247-885-00	CARBON	180K	5%	1/6W
R334	1-249-429-11	CARBON	10K	5%	1/6W
R335	1-249-429-11	CARBON	10K	5%	1/6W
R336	1-249-433-11	CARBON	22K	5%	1/6W
R337	1-249-429-11	CARBON	10K	5%	1/6W
R338	1-249-433-11	CARBON	22K	5%	1/6W
R339	1-249-437-11	CARBON	47K	5%	1/6W
R340	1-249-437-11	CARBON	47K	5%	1/6W
R341	1-214-780-00	METAL	130K	1%	1/4W
R342	1-249-437-11	CARBON	47K	5%	1/6W
R343	1-247-849-00	CARBON	5.6K	5%	1/6W
R344	1-247-700-11	CARBON	100		1/4W
R345	1-247-700-11	CARBON	100		1/4W
R346	1-247-839-00	CARBON	2.2K	5%	1/6W
R351	1-249-417-11	CARBON	1K	5%	1/6W
R352	1-249-417-11	CARBON	1K	5%	1/6W
R353	1-249-417-11	CARBON	1K	5%	1/6W
R354	1-249-417-11	CARBON	1K	5%	1/6W
R355	1-249-435-11	CARBON	33K	5%	1/6W
R356	1-249-435-11	CARBON	33K	5%	1/6W
R357	1-249-441-11	CARBON	100K	5%	1/6W
R358	1-249-441-11	CARBON	100K	5%	1/6W
R359	1-249-429-11	CARBON	10K	5%	1/6W
R360	1-249-433-11	CARBON	22K	5%	1/6W
R361	1-249-433-11	CARBON	22K	5%	1/6W
R362	1-247-875-00	CARBON	68K	5%	1/6W
R363	1-249-433-11	CARBON	22K	5%	1/6W
R364	1-249-433-11	CARBON	22K	5%	1/6W
R365	1-247-875-00	CARBON	68K	5%	1/6W
R366	1-247-875-00	CARBON	68K	5%	1/6W
R367	1-249-433-11	CARBON	22K	5%	1/6W
R368	1-249-437-11	CARBON	47K	5%	1/6W
R369	1-249-433-11	CARBON	22K	5%	1/6W
R370	1-249-432-11	CARBON	18K	5%	1/6W
R371	1-249-432-11	CARBON	18K	5%	1/6W
R372	1-247-791-00	CARBON	22	5%	1/6W
R373	1-247-811-00	CARBON	150	5%	1/6W
R374	1-249-433-11	CARBON	22K	5%	1/6W
R375	1-249-437-11	CARBON	47K	5%	1/6W
R376	1-249-433-11	CARBON	22K	5%	1/6W
R377	1-247-856-00	CARBON	11K	5%	1/6W
R378	1-247-856-00	CARBON	11K	5%	1/6W
R379	1-247-791-00	CARBON	22	5%	1/6W
R380	1-247-811-00	CARBON	150	5%	1/6W
R381	1-249-441-11	CARBON	100K	5%	1/6W
R382	1-249-441-11	CARBON	100K	5%	1/6W
R383	1-249-405-11	CARBON	100	5%	1/6W
R384	1-247-839-00	CARBON	2.2K	5%	1/6W
R385	1-247-845-00	CARBON	3.9K	5%	1/6W
R386	1-247-889-00	CARBON	270K	5%	1/6W
R601	1-249-437-11	CARBON	47K	5%	1/6W
R602	1-249-437-11	CARBON	47K	5%	1/6W
R603	1-249-423-11	CARBON	3.3K	5%	1/6W
R604	1-249-423-11	CARBON	3.3K	5%	1/6W
R605	1-249-415-11	CARBON	680	5%	1/6W
R606	1-249-415-11	CARBON	680	5%	1/6W
R607	1-249-417-11	CARBON	1K	5%	1/6W

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
R608	1-249-417-11	CARBON	1K	5%	1/6W
R609	1-247-839-00	CARBON	2.2K	5%	1/6W
R613	1-249-440-11	CARBON	82K	5%	1/6W
R614	1-249-417-11	CARBON	1K	5%	1/6W
R615	1-249-417-11	CARBON	1K	5%	1/6W
R616	1-249-429-11	CARBON	10K	5%	1/6W
R617	1-249-429-11	CARBON	10K	5%	1/6W
R618	1-249-429-11	CARBON	10K	5%	1/6W
R619	1-249-441-11	CARBON	100K	5%	1/6W
R620	1-249-437-11	CARBON	47K	5%	1/6W
R621	1-247-895-00	CARBON	470K	5%	1/6W
R622	1-247-899-00	CARBON	680K	5%	1/6W
R623	1-214-765-00	METAL	33K	1%	1/4W
R624	1-249-440-11	CARBON	82K	5%	1/6W
R625	1-249-429-11	CARBON	10K	5%	1/6W
R626	1-249-429-11	CARBON	10K	5%	1/6W
R627	1-249-422-11	CARBON	2.7K	5%	1/6W
R628	1-247-850-00	CARBON	6.2K	5%	1/6W
R629	1-249-425-11	CARBON	4.7K	5%	1/6W
R630	1-247-851-00	CARBON	6.8K	5%	1/6W
R631	1-247-903-00	CARBON	1M	5%	1/6W
R632	1-249-441-11	CARBON	100K	5%	1/6W
R633	1-247-850-00	CARBON	6.2K	5%	1/6W
R634	1-247-857-00	CARBON	12K	5%	1/6W
R635	1-249-417-11	CARBON	1K	5%	1/6W
R636	1-247-873-00	CARBON	56K	5%	1/6W
R637	1-249-417-11	CARBON	1K	5%	1/6W
R638	1-249-417-11	CARBON	1K	5%	1/6W
R639	1-249-423-11	CARBON	3.3K	5%	1/6W
R640	1-249-423-11	CARBON	3.3K	5%	1/6W
R701	1-249-425-11	CARBON	4.7K	5%	1/6W
R702	1-249-425-11	CARBON	4.7K	5%	1/6W
R703	1-249-423-11	CARBON	3.3K	5%	1/6W
R704	1-249-423-11	CARBON	3.3K	5%	1/6W
R705	1-247-839-00	CARBON	2.2K	5%	1/6W
R706	1-247-839-00	CARBON	2.2K	5%	1/6W
R709	1-247-839-00	CARBON	2.2K	5%	1/6W
R710	1-247-839-00	CARBON	2.2K	5%	1/6W
R711	1-247-771-00	CARBON	3.3	5%	1/6W
R712	1-247-771-00	CARBON	3.3	5%	1/6W
R713	1-249-440-11	CARBON	82K	5%	1/6W
R714	1-249-429-11	CARBON	10K	5%	1/6W
R715	1-249-441-11	CARBON	100K	5%	1/6W
R716	1-247-892-00	CARBON	360K	5%	1/6W
R717	1-249-437-11	CARBON	47K	5%	1/6W
R718	1-249-425-11	CARBON	4.7K	5%	1/6W
R719	1-249-435-11	CARBON	33K	5%	1/6W
R720	1-249-437-11	CARBON	47K	5%	1/6W
R801	1-247-217-00	CARBON	110	5%	1/2W
R802	1-249-433-11	CARBON	22K	5%	1/6W
R803	1-249-433-11	CARBON	22K	5%	1/6W
R804	1-249-433-11	CARBON	22K	5%	1/6W
R805	1-249-433-11	CARBON	22K	5%	1/6W
R806	1-249-433-11	CARBON	22K	5%	1/6W
R807	1-249-433-11	CARBON	22K	5%	1/6W
R808	1-249-433-11	CARBON	22K	5%	1/6W
R809	1-249-433-11	CARBON	22K	5%	1/6W

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
R810	1-249-433-11	CARBON	22K	5%	1/6W
R811	1-249-433-11	CARBON	22K	5%	1/6W
R812	1-249-433-11	CARBON	22K	5%	1/6W
R813	1-249-417-11	CARBON	1K	5%	1/6W
R814	1-249-417-11	CARBON	1K	5%	1/6W
R815	1-249-417-11	CARBON	1K	5%	1/6W
R816	1-249-417-11	CARBON	1K	5%	1/6W
R817	1-249-417-11	CARBON	1K	5%	1/6W
R818	1-249-417-11	CARBON	1K	5%	1/6W
R819	1-249-417-11	CARBON	1K	5%	1/6W
R610	1-247-839-00	CARBON	2.2K	5%	1/6W
R611	1-247-771-00	CARBON	3.3	5%	1/6W
R612	1-247-771-00	CARBON	3.3	5%	1/6W
R820	1-249-417-11	CARBON	1K	5%	1/6W
R821	1-249-417-11	CARBON	1K	5%	1/6W
R822	1-249-417-11	CARBON	1K	5%	1/6W
R823	1-249-417-11	CARBON	1K	5%	1/6W
R824	1-249-417-11	CARBON	1K	5%	1/6W
R825	1-249-417-11	CARBON	1K	5%	1/6W
R826	1-249-417-11	CARBON	1K	5%	1/6W
R827	1-249-422-11	CARBON	2.7K	5%	1/6W
R828	1-247-903-00	CARBON	1M	5%	1/6W
R829	1-247-700-11	CARBON	100	5%	1/4W
R830	1-247-688-11	CARBON	10	5%	1/4W
R831	1-249-432-11	CARBON	18K	5%	1/6W
R832	1-247-857-00	CARBON	12K	5%	1/6W
R833	1-249-433-11	CARBON	22K	5%	1/6W
R834	1-249-441-11	CARBON	100K	5%	1/6W
R835	1-249-433-11	CARBON	22K	5%	1/6W
R836	1-247-809-00	CARBON	120	5%	1/6W
R837	1-247-817-00	CARBON	270	5%	1/6W
R838	1-247-813-00	CARBON	180	5%	1/6W
R839	1-247-813-00	CARBON	180	5%	1/6W
R840	1-247-813-00	CARBON	180	5%	1/6W
R841	1-249-425-11	CARBON	4.7K	5%	1/6W
R842	1-249-425-11	CARBON	4.7K	5%	1/6W
R843	1-249-429-11	CARBON	10K	5%	1/6W
R844	1-249-417-11	CARBON	1K	5%	1/6W
R845	1-249-417-11	CARBON	1K	5%	1/6W
R846	1-249-417-11	CARBON	1K	5%	1/6W
R847	1-249-429-11	CARBON	10K	5%	1/6W
R848	1-249-429-11	CARBON	10K	5%	1/6W
R849	1-249-429-11	CARBON	10K	5%	1/6W
R850	1-247-717-11	CARBON	2.2K	5%	1/4W
R851	1-247-717-11	CARBON	2.2K	5%	1/4W
R852	1-249-437-11	CARBON	47K	5%	1/6W
R853	1-249-437-11	CARBON	47K	5%	1/6W
R854	1-247-875-00	CARBON	68K	5%	1/6W
R855	1-247-875-00	CARBON	68K	5%	1/6W
R856	1-247-875-00	CARBON	68K	5%	1/6W
R857	1-247-875-00	CARBON	68K	5%	1/6W
R858	1-247-875-00	CARBON	68K	5%	1/6W
R859	1-247-875-00	CARBON	68K	5%	1/6W
R860	1-247-875-00	CARBON	68K	5%	1/6W
R861	1-247-875-00	CARBON	68K	5%	1/6W
R862	1-249-435-11	CARBON	33K	5%	1/6W
R863	1-247-845-00	CARBON	3.9K	5%	1/6W

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
R864	1-249-433-11	CARBON	22K	5%	1/6W
R901	1-247-721-11	CARBON	4.7K	5%	1/4W
R902	1-247-721-11	CARBON	4.7K	5%	1/4W
R903	1-247-839-00	CARBON	2.2K	5%	1/6W
R904	1-247-721-11	CARBON	4.7K	5%	1/4W
R905	1-247-721-11	CARBON	4.7K	5%	1/4W
R906	1-247-839-00	CARBON	2.2K	5%	1/6W
R907	1-247-713-11	CARBON	1K	5%	1/4W
R908	1-247-717-11	CARBON	2.2K	5%	1/4W
R909	1-247-717-11	CARBON	2.2K	5%	1/4W
R910	1-247-839-00	CARBON	2.2K	5%	1/6W
R911	1-247-725-11	CARBON	10K	5%	1/4W
R912	1-247-132-00	CARBON	1.1K	5%	1/4W
R913	1-247-713-11	CARBON	1K	5%	1/4W
R914 Δ	1-217-422-00	FUSIBLE	1	5%	1/2W F
R915 Δ	1-217-422-00	FUSIBLE	1	5%	1/2W F
RV101	1-224-255-XX	RES, ADJ, METAL GLAZE	100K		
RV102	1-224-251-XX	RES, ADJ, METAL GLAZE	4.7K		
RV103	1-228-128-00	RES, VAR, CARBON	5K		
RV104	1-224-251-XX	RES, ADJ, METAL GLAZE	4.7K		
RV105	1-224-250-XX	RES, ADJ, METAL GLAZE	2.2K		
RV106	1-224-250-XX	RES, ADJ, METAL GLAZE	2.2K		
RV107	1-224-250-XX	RES, ADJ, METAL GLAZE	2.2K		
RV108	1-224-250-XX	RES, ADJ, METAL GLAZE	2.2K		
RV201	1-224-255-XX	RES, ADJ, METAL GLAZE	100K		
RV202	1-224-251-XX	RES, ADJ, METAL GLAZE	4.7K		
RV203	1-228-128-00	RES, VAR, CARBON	5K		
RV204	1-224-251-XX	RES, ADJ, METAL GLAZE	4.7K		
RV205	1-224-250-XX	RES, ADJ, METAL GLAZE	2.2K		
RV206	1-224-250-XX	RES, ADJ, METAL GLAZE	2.2K		
RV207	1-224-250-XX	RES, ADJ, METAL GLAZE	2.2K		
RV208	1-224-250-XX	RES, ADJ, METAL GLAZE	2.2K		
RV301	1-237-026-11	RES, VAR, CARBON	10K/10K		
RV302	1-228-127-00	RES, VAR, CARBON	20K		
RV303	1-228-128-00	RES, VAR, CARBON	5K		
RV304	1-224-247-XX	RES, ADJ, METAL GLAZE	100		
RV305	1-224-247-XX	RES, ADJ, METAL GLAZE	100		
RV601	1-226-239-00	RES, ADJ, CARBON	100K		
RV602	1-226-239-00	RES, ADJ, CARBON	100K		
RV603	1-226-232-00	RES, ADJ, CARBON	500		
RV604	1-226-232-00	RES, ADJ, CARBON	500		
RV605	1-224-252-XX	RES, ADJ, METAL GLAZE	10K		
RV701	1-226-239-00	RES, ADJ, CARBON	100K		
RV702	1-226-239-00	RES, ADJ, CARBON	100K		
RY301	1-515-547-11	RELAY			
RY302	1-515-467-00	RELAY, LATCH			
RY303	1-515-467-00	RELAY, LATCH			

ELECTRICAL PARTS

Ref.No.	Part No.	Description
S301	1-570-444-11	SWITCH, PUSH (4 KEY) (TAPE SELECTOR/MPX FILTER)
S302	1-552-964-00	SWITCH, ROTARY (MODE)
S303	1-554-338-00	SWITCH, LEVER SLIDE (MONITOR)
S601	1-553-325-00	SWITCH (SERVO/GAIN)
S801	1-553-206-00	SWITCH, SLIDE (TIMER)
S851	1-552-539-00	SWITCH, KEY BOARD (REW)
S852	1-552-539-00	SWITCH, KEY BOARD (STOP)
S853	1-552-539-00	SWITCH, KEY BOARD (FWD)
S854	1-552-539-00	SWITCH, KEY BOARD (FF)
S855	1-552-539-00	SWITCH, KEY BOARD (REC)
S856	1-552-539-00	SWITCH, KEY BOARD (PAUSE)
S857	1-552-539-00	SWITCH, KEY BOARD (REC MUTE)
S901 Δ	1-553-318-00	SWITCH, PUSH (AC POWER) (1 KEY)
S1001	1-552-268-00	SWITCH, SLIDE
S1002	1-552-268-00	SWITCH, SLIDE
SW01	1-552-539-00	SWITCH, KEY BOARD (RESET)
SW02	1-552-539-00	SWITCH, KEY BOARD (MEMORY)
SW03	1-552-539-00	SWITCH, KEY BOARD (DOLBY B)
SW04	1-552-539-00	SWITCH, KEY BOARD (DOLBY C)
SW05	1-552-539-00	SWITCH, KEY BOARD (OFF)
SW06	1-552-539-00	SWITCH, KEY BOARD (AUTO)
SW07	1-552-539-00	SWITCH, KEY BOARD (MANUAL)
TH101	1-800-200-00	THERMISTOR S-3K
TH102	1-800-200-00	THERMISTOR S-3K
TH201	1-800-200-00	THERMISTOR S-3K
TH202	1-800-200-00	THERMISTOR S-3K
TP601	*1-560-062-00	PIN, CONNECTOR 4P
TP701	*1-560-061-00	PIN, CONNECTOR 3P
X601	1-567-082-00	VIBRATOR, CRYSTAL
X801	1-527-802-00	OSCILLATOR, CERAMIC
X802	1-527-532-00	OSCILLATOR, CERAMIC

ACCESSORY & PACKING MATERIAL

Part No.	Description
1-551-315-00	CORD, CONNECTION
3-311-640-01	INDIVIDUAL CARTON
3-577-672-00	CUSHION, FRONT
3-577-673-00	CUSHION, REAR
3-701-630-00	BAG, POLYETHYLENE
3-760-806-11	MANUAL, INSTRUCTION
3-793-481-13	INSTRUCTION
4-858-078-00	SHEET, PROTECTION

The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.